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PRT; 1103 AA.

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B. Submitted (Add-2003) to the EMBL/GenBank/DDBJ databases.

B. Remis, BK649182; CAE45885.1; -.

C. GO:0005576; C:extracellular; IEA.

R. InterPro; IPR00039; EGF like.

InterPro; IPR00039; FN III.

InterPro; IPR00039; FN III.

InterPro; IPR00039; FN III.

InterPro; IPR0013; FN III.

InterPro; IPR0013; FN III.

InterPro; IPR00040; FI II.

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TISSUE=Human uterus endothel primary cell culture;
The German Human cDNA Consortium;
The German Human cDNA Consortium;
Han M., Wiemann S.;
Submitted (MIG-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; BK640999; CAR6002.1; ...
GO, GO,0005576; C:extracellular; IEA.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE 1103 AA; 122113 MW; 82FEC4CAF634AD56 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q6MZM7;
05-UUL-2004 (TrEMBLrel. 27, Created)
05-UUL-2004 (TrEMBLrel. 27, Last sequence update)
05-UUL-2004 (TrEMBLrel. 27, Last sequence update)
4. Mypothetical protein DKFZp686012165 (Fragment).
Name=DKFZp686012165;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT; 2193 AA.
    Name=DKFZp686K139; Synonyms=DKFZp686F219;
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                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
TISSUE-Human cervix;
The German Human cDNA Consortium;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 VGNGRGEWTCIAYSQLRDQCI 21
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                                                                                                                                                                            NCBI_TaxID=9606;
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Q6MZM7
    DER PROCESSION OF THE PROCESSI
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TISSUEAMY SEQUENCE FROM N.A.

TISSUEAMY SEQUENCE TO N.A.

TISSUEAMY SEQUENCE TO SEQUENCE SEQUENC
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25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein DKFZp686H0342.
Name-DKFZp686H0342;
Mame-DKFZp686H0342;
Butharyota, Metazoa; Chordata, Craniata, Vertebrata; Euteleostomi,
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
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### PEGNO | PE
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SMART; SW00058; FN1; 12.
SMART; SW00069; FN2; 2.
SMART; SW00060; FN2; 2.
PROSITE; PS00687; ALDEHYDE DEHYDR GLU; UNKNOWN_1.
PROSITE; PS00022; FGF 1; NĪKNOWN_2.
PROSITE; PS01023; FIBRONECTIN 1; 10.
PROSITE; PS01023; FIBRONECTIN 2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 120; DB 2;
100.0%; Pred. No. 1.9e-09;
tive 0; Mismatches 0;
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

November 11, 2005, 08:12:29 ; Search time 1.59216 Seconds (without alignments) 1269.066 Million cell updates/sec Run on:

US-09-581-651D-9 120 1 VGNGRGEWTCIAYSQLRDQCI 21

Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		d			SUMMARIES	
Result No.	Score	Query Match	Length	DB	ID	Description
-	119	99.2	2265	-	FNBO	fibronectin - bovi
7	115	95.8	2386	ч	FNHU	fibronectin precur
8	114	95.0	190	•••	151279	
4	112	93.3	2481	~	A43908	fibronectin - Afri
S	107	89.5	2477	•	S14428	fibronectin precur
9	53	44.2	768	N	AE3505	alkaline phosphata
7	52	43.3	143	N	T28845	hypothetical prote
80	51.5	42.9	786	N	S44837	K02D10.1 protein -
ō	49.5	41.2	420	N	E96614	hypothetical prote
10	48	40.0	718	~	A83282	
11	47.5	39.6	405	~	T12805	hypothetical prote
12	47	σ	295	N	T49230	
13	47	39.5	502	٦	JQ2341	dece
14	47	σ	612	~	T35430	probable long-chai
15	46	38.3	315	7	A64205	
16	45.5	37.9	416	N	T10623	hypothetical prote
17	45	37.5	172	~	S16208	NADH2 dehydrogenas
18	45	37.5	355	~	B95213	ABC transporter, s
19	45	37.5	355	N	C98077	hypothetical prote
	45	37.5	621	N	T15046	arginine decarboxy
21	44.5	37.1	366	N	S51363	actin modulator pr
	44.5	37.1	780	~	T00366	hypothetical prote
23	44	36.7	147	7	S64252	probable membrane
24	44	36.7	256	N	C70687	hypothetical prote
25	44	36.7	319	7	S73421	o-sialoglycoprotei
56	44	36.7	437	-	FGHUG	fibrinogen gamma-A
27	44	36.7	453	-1	FGHUGB	fibrinogen gamma-B
28	44	36.7	583	~	T25690	hypothetical prote
29	44	36.7	700	N	T27364	hypothetical prote

genome polyprotein hypothetical prote probable membrane	maltose permease - hypothetical prote probable phosphogl hypothetical prote	hypothetical prote aurface glycoprote augar permease hom RNA helicase DbpA	<pre>gurface glycoprote genome polyprotein probable dimethyl protein F28C11.9 {</pre>	hypothetical prote
RRIHM2 T09052 G97188	S43915 T49682 A71337 T19126	T04225 VGXPLV S39676 E83588	A43492 C49596 AF0360 B86368	T15722
<b>422</b>	7227	2442	4000	0
4488 761 259	394 468 188	473 399 458	490 585 808 1161	143
36.7 36.2 35.8	35.8 35.8 35.8	35.0 35.0 4.4.0 0.0 0.0	35.0	34.6
43.5 43.5	43 43 43 5	422 22.5 242 242 242	4444	41.5
321	2 2 2 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4	33 4 8 8 9 9 9 9	4 4 4 4 4 0 6 4	45

# ALIGNMENTS

RESULT 1

	CONG
	The state of the s
	ilbronectin - bovine
	C;Species: Bos primigenius taurus (cattle)
	C;Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 09-Jul-2004
	C;Accession: A26452; B21165; A23292
	Kiskotsvengaaru, k.; Jenleben, m.s.; Sanli, r.; Feterben, 1.5.; Magnusson, s. Britter I alcohom 161 441.462 1006
	but. 0. incomment. 11, 111 - 15, 150. A structure of bovine plasma fibronectin.
	A; Reference number: A26452; MUID:87054047; PMID:3780752
	A; Accession: A26452
	A; Molecule type: protein
	A;Residues: 1-2265 <sko></sko>
	A;Cross-references UNIFOCIPU/S89
	K;NoInblinct, A.K.; Vibe-Pedrien, N.; Baraile, F.E.
	FIGURE ACTION ACTION AND CONSTRUCTION OF CONA CONTROL ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION A
	A. Reference number: A21165: MUID:8321567: PMID:6304699
	A; Accession: B21165
	A; Molecule type: mRNA
	A;Residues: 2170-2265 <kor></kor>
	A; Cross-references: GB: K00800; NID: g163055; PIDN: AAA30521.2; PID: 95713323
	R; Petersen, T.E.; Thogersen, H.C.; Skorstengaard, K.; Vibe-Pedersen, K.; Sahl, P.; Sotta
	Proc. Natl. Acad. Sci. U.S.A. 80, 137-141, 1983
	A, Title: Partial primary structure of bovine plasma fibronectin: three types of internal
	A; Reference number: A23292; MUID:83117805; PMID:6218503
	A,Accession: A23292
	A; Molecule type: protein
	A, Residues: 1-16, 'C', 18-20, 'S', 22-432, 447-463, 1367-1517, 1567-1673, 2062-2176, 'N', 2178-216
_	C; Comment: Cys-1201 and Cys-2015 have free sulfhydryl groups.
-	C; Comment: The plasma fibronectin molecule consists of two chains, which are connected to
	C; Comment: Fibronectins bind cell surfaces and various compounds including collagen, tit
	aling, and maintenance of cell shape.
	C; Comment: Plasma fibronectin is synthesized by hepatocytes.
	C;Superramily: ilbronectin; ilbronectin type I repeat nomology; ilbronectin type II epe
	C;Keywords: acute phase; alternative splitting; collagen binding; auplication; extracellu
	Fig. 1-2+1 Dollar III - Librari and depot III bring   S.
_	Fig. 1-56/Domain: Libronictin time I tebeat inductory sitts
	Figority Domini: Librarectii Figority Tebes Industrial 152
	F;110-146/Domain: ildiconcerti type I repeat homology affect
	F)153-174 DOMENTI ILLIONECTIN TYPE I TEPERAL MOMENTORY VIETA
	Figure 237/Domain: Collader binding CRRs
	P.277-31/Domestor Fibronectin tyme I repeat homology <186>
	fibronectin type
	fibronectin type
_	type
	fibronectin type
	fibronectin type
	fibronectin type III repeat homology
	type III repeat homology
-	F;779-860/Domain: fibronectin type III repeat homology <rn3c></rn3c>

2

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R;Vibe-Pedersen, K.; Magnusson, S.; Baralle, F.E.
PESS Lett., 207, 287-291, 1986
A;Title: Donor and acceptor splice signals within an exon of the human fibronectin gene:
A;Reference number: A24854; MUID:87030929; PMID:3770201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A,Molecule type: mRNA
A,Residues: 1-14, 'O',16-38 <GUT>
R,Residues: 1-14, 'O',16-38 
R,Kornblihtt, A.R.; Umezawa, K.; Vibe-Pedersen, K.; Baralle, F.E.
EMBO J. 4, 1755-1759, 1985
A,Title: Primary structure of human fibronectin: differential splicing may generate at 1,
A,Reference number: A91008; MUID:85284965; PMID:2992939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Status: nucleic and sequence not shown
A;Status: nucleic and
A;Residues: 32-1344.1346-2080;2112-2386 < KOR>
A;Residues: 32-1344.1346-2080;2112-2386 < KOR>
A;Cross-references: GB:X02761
B;Cross-references: GB:X02761
B;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
Nucleic Acids Res. 12 5853-5868, 1984
A;Title: Human fibronectin: cell specific alternative mRNA splicing generates polypepting A;Reference number: A93529; MUID:84272258; PMID:6462919
A;Accession: A93529.
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R;Bernard, M.P.; Kolbe, M.; Weil, D.; Chu, M.L.
Biochemistry 24, 2698-2704, 1985
A;Title: Human cellular fibronectin: comparison of the carboxyl-terminal portion with ra. A;Reference number: A90495; WUID:85280409; PMID:2992573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: GB:M27590
R;Sckiguchi, K.; Klos, A.M.; Kurachi, K.; Yoshitake, S.; Hakomori, S.
Bischemistry 25, 4936-4941, 1986
A;Title: Human liver fibronectin complementary DNAs: identification of two different má. A;Reference number: 152394; MUID:87026578; PMID:3021206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A,Molecule type: mRNA
A,Residues: 1978-1990,2016-2018,'N',2020-2081,2113-2127 <SEK>
A,Cross-references: GB:M14060, ND:g182701, PIDN:AAAS2464.1; PID:g182704
R,Kornblithtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
Proc. Natl. Acad. Sci. U.S.A. 80, 3218-3222, 1983
A,Title: Isolation and characterization of cDNA clones for human and bovine fibronectina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 973-2080;2112-2386 <KO2>
A; Cross-references: GB:X00739
K; Oldberg, A.; Linney, E.; Rucelahti, E.
J. Biol. Chem. 258, 10193-10196, 1983
A; Title: Molecular cloning and nucleotide sequence of a cDNA clone coding for the cell
A; Reference number: A21011; MUID:83290929; PMID:6688418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: mRNA
A;Residues: 1594-2386 <BER>
A;Coss=references: 08:MIO9055, NID:g182696; PIDN:AAA52462.1; PID:g182697
A;Cross-references: 08:MIO9055, NID:g182696; PIDN:AAA52462.1; PID:g182697
EEBS Lett. 186, 31-34, 1985
A;Title: Isolation and characterization of cDNA clones for human liver fibronectin.
A;Reference number: A22245; MUID:85231203; PMID:2989004
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A;Residues: 1948-2067 <UME>
A;Cross-references: GB:M27589; NID:g182705; PIDN:AAA52465.1; PID:g182706
                                                                                                                                                                                                                                    A,Molecule type: DNA
A,Residues: 1992-2147 <VIB>
A,Cross-references: GXX4530, NID:g31436
A,Gutman, A.; Yamada, K.M.; Kornblihtt, A.
FEBS Lett. 207, 145-148, 1986
A,Title: Human fibronectin is synthesized as a pre-propolypeptide.
A,Reference number: A24476; MUID:87030890; PMID:3770189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: preliminary; translated from GB/EMBL/DDBJ
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A;Residues: 1975-1991;2017-2039 <UM2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Molecule type: mRNA
Residues: 1434-1537 <OL2>
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A,Molecule type: DNA
A,Recession: A26460

A,Molecule type: DNA
A,Recession: A26460

A,Molecule type: DNA
A,References: UNIPROT: Q14327; GB:M15801; NID:g182686; PIDN:AA5337

R,Oldberg, A.; Ruoslahti, E.
J. Biol. Chem. 261, 2113-2118.
A,Title: Evolution of the fibronectin gene.
A,Reference number: A26284; MUID:86111901; PMID:3003095
A,Recession: A26284; MUID:86111901; PMID:3003095
A,Recession: A26284
A,Molecule type: DNA
A,Residues: 1447-1540 < CLD>
A,COSS-references: GB:M12549; NID:g182688
A,Note: the authors translated the codon TTC for residue 1494 as Glu
R,Paolella, G.; Hencholiffe, C.; Sebastio, G.; Baralle, F.E.
Nucleic Acids Res: 16, 3545-3557, 1988
A,Title: Sequence analysis and in vivo expression show that alternative splicing of ED-E
A,Reference number: S00848; MUID:88233940; PMID:3375063
A,Reference number: S00848; MUID:88233940; PMID:3375063
A,Residues: 1594-1767, VV, 1769-1783, APAO>
A,COSS-references: EMBL:X07718; NID:g31402
A,Note: the authors translated the codon AAC for residue 1631 as Asp
                        Fig65-1046/Domain: fibronectin type III repeat homology FN3E>
Fi055-1046/Domain: fibronectin type III repeat homology FN3E>
Fi142-1046/Domain: fibronectin type III repeat homology FN3E>
Fi142-1237/Domain: fibronectin type III repeat homology FN3E>
Fi136-1340/Domain: fibronectin type III repeat homology FN3E>
Fi136-1360/Domain: fibronectin type III repeat homology FN3E>
Fi440-1517/Domain: fibronectin type III repeat homology FN3E>
Fi440-1517/Domain: fibronectin type III repeat homology FN3E>
Fi460-1680/Domain: fibronectin type III repeat homology FN3E>
Fi560-1681/Domain: fibronectin type III repeat homology FN3E>
Fi560-1681/Domain: fibronectin type III repeat homology FN3E>
Fi560-1681/Domain: fibronectin type III repeat homology FN3E>
Fi510-1781/Domain: fibronectin type III repeat homology FN3E>
Fi510-1781/Domain: fibronectin type III repeat homology FN3E>
Fi310-2167/Domain: fibronectin type III repeat homology FN3E>
Fi310-2167/Domain: fibronectin type III repeat homology FN3E>
Fi310-2167/Domain: fibronectin type I repeat homology FN3E>
FN3
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N;Alternate names: fibronectin splice form ED-A
N;Alternate names: fibronectin splice form ED-A
C;Species: Homo sapiens (man)
C;Date: 27-Nov-1985 #sequence revision 31-Mar-1993 #text change 09-Jul-2004
C;Accession: A26460; A26284; S03917; A24854; A24476; A91008; A93529; A21011; A90495; A22
R;Dean, D.C.; Bowlus, C.L.; Bourgeois, S.
Proc. Natl. Acad. Sci. US.A. 84, 1876-1880, 1987
A;Title: Cloning and analysis of the promoter region of the human fibronectin gene.
A;Reference number: A26460; MUID:87175578; PMID:3031656
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Pred. No. 5.7e-10;
1; Mismatches 0; Indels
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Best Local Similarity 95.2%;
Matches 20; Conservative
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APPLICANT: Terumo Corporation
TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Factivity
FILE REPERENCE: 19990120
CURRENT APPLICATION NUMBER: US/09/934,706
CURRENT FILING DATE: 2001-08-23
NUMBER OF SEQ ID NOS: 16
SOFTWARE:
SOFTWARE:
LENGTH: 343
TYPE: PRT
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FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:Modified Human
OTHER INFORMATION: Fibronectin Collagen-Binding Domain
NAME/KEY: INIT_MET
INCATION: (1)
NAME/KEY: DOMAIN
OTHER INFORMATION: (2)...(341)
OTHER INFORMATION: (2)...(341)
OTHER INFORMATION: (2)...(341)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/09934706; Patent No. US20020102709A1; GENERAL INFORMATION:
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Best Local Similarity
Matches 21; Conserv
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; LOCATION: (125)
US-09-934-706-1
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Sequence 1, Appli
Sequence 5, Appli
Sequence 4 Appli
Sequence 106, Ap
Sequence 1075, Ap
Sequence 1072, Ap
Sequence 1056, Ap
Sequence 1069, Ap
Sequence 1069, Ap
Sequence 2634, Ap
                                                                                                                                                                                                                    ; Search time 7.1098 Seconds (without alignments)
1235.843 Million cell updates/sec
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                              GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
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US-10-741-601-1066
US-10-741-601-1075
US-10-741-601-1072
US-10-741-601-1072
US-10-741-601-1073
US-10-763-52634
US-10-236-392-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Published Applications AA:*
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Maximum Match 100%
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1 VGNGRGEWTCIAYSQLRDQCI
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seq length: 200000000
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1137, Ap 28, Appl

Sequence Sequence Sequence

Minimum DB Maximum DB

Database

Searched:

Sequence Sequence Sequence

Sequence Sequence

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Sequence 4, Application US/09934706

BENERAL INFORMATION:

APPLICANT: Terumo Corporation

TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding

TITLE OF INVENTION: Punctional Hybrid Polypeptide with Collagen-binding

TITLE OF INVENTION: Activity

CURRENT FILLING DATE: 2001-08-23

NUMBER OF SEQ ID NOS: 16

SOFTWARE:

SOFTWARE:

TITLE OF INVENTION: Activity

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TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Activity
FITLE OF INVENTION: Activity
FITLE OF INVENTION: Activity
FILE REFERENCE: 19990120
CURRENT APPLICATION NUMBER: US/09/934,706
CURRENT FILING DATE: 2001-08-23
NUMBER OF SEQ ID NOS: 16
SOFTWARE:
SEQ ID NO 5
LENGTH: 400
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OTHER INFORMATION: Description of Artificial Sequence: Hybrid
OTHER INFORMATION: Polypeptide of Human Fibronectin Collagen-Binding
OTHER INFORMATION: Domain and Human Basic Fibroblast Growth Factor
NAME/KEY: INIT MET
LOCATION: (1)
NAME/KEY: DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COTATION: (2)...(341)
COTHER INFORMATION: /note="human fibronectin collagen-binding domain"
NAME/KEY: PEPTIDE
COTHER INFORMATION: /note=" enterokinase recognition sequence"
NAME/KEY: PEPTIDE
COTHER INFORMATION: /note=" enterokinase recognition sequence"
NAME/KEY: PEPTIDE
COTHER INFORMATION: /note="human epidermal growth factor"
US-09-934-706-5
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                                              210 VGNGRGEWTCIAYSQLRDQCI 230
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1 VGNGRGEWTCIAYSQLRDQCI 21
                                                                                                                                                                                                                                                                     ; Sequence 5, Application US/09934706; Patent No. US20020102709A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: PRT
ORGANISM: Artificial Sequence
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US-09-934-706-5
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Best Local S:
Matches 21
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Sequence 1066, Application US/10741600

Publication No. US20050026169A1

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
TITLE OF INVENTION MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 73997
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1066
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COTTION: (2) .. (341)

OTHER INFORMATION: /note="human fibronectin collagen-binding domain"

NAME/KEY: PEPTIDE

LOCATION: (343).. (347)

OTHER INFORMATION: /note="enterokinase recognition sequence"

NAME/KEY: PEPTIDE

LOCATION: (348).. (501)

LOCATION: (348).. (501)

COTHER INFORMATION: /note="human fibroblast growth factor"

US-09-934-706-4
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US-10-741-601-354

i Sequence 354, Application US/10741601

j Publication No. US20040166519A1

j GENERAL INFORMATION:
i APPLICANT: CARGILL, Michele et al.
i TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

I TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES

FILE REFERENCE: CL001500

CURRENT APPLICATION NUMBER: US/10/741,601

CURRENT FILING DATE: 2003-12-22

NUMBER OF SEQ ID NOS: 26415

SOFTWARE: FastSEQ for Windows Version 4.0
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100.0%; Pred. No. 7.2e-10;
tive 0; Mismatches 0;
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100.0%; Pred. No. 7.2e-10;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                      100.0%; Score 120; DB 9;
100.0%; Pred. No. 5.6e-10;
iive 0; Mismatches 0;
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Best Local Similarity 100.0
Matches 21, Conservative
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Best Local Similarity 100.
Matches 21, Conservative
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; ORGANISM: Homo sapiens
US-10-741-601-354
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CORGANISM: Homo sapiens
US-10-741-600-1066
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Best Local Similarity
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US-10-741-600-1066
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Sequence 1, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 16, Appl
Sequence 12, Appl
Sequence 20, Appl
Sequence 20, Appl
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6328, Ap
3026, Ap
8257, Ap
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7822, Ap
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27, Appl
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Patent No. 5455158
Patent No. 5455158
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                                                                                                                         November 11, 2005, 08:22:00 ; Search time 2.22353 Seconds (without alignments) 705.019 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Sequence 2
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1: /cgn2 6/ptodata/1/laa/5A COMB.pep:*

2: /cgn2 6/ptodata/1/laa/5B COMB.pep:*

3: /cgn2 6/ptodata/1/laa/6B COMB.pep:*

4: /cgn2 6/ptodata/1/laa/6B COMB.pep:*

5: /cgn2 6/ptodata/1/laa/PCTUS COMB.pep:*

5: /cgn2 6/ptodata/1/laa/PCTUS COMB.pep:*
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-09-136-218-20
US-09-02-540-12185
US-09-252-991A-18279
US-09-232-9328-9328
US-09-583-110-3026
US-09-543-681A-8257
US-09-664-945-4
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US-08-434-099A-27
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US-08-153-799-16
US-09-016-366A-12
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Listing first 45 summaries
                                                                                    - protein search, using sw model
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1 VGNGRGEWTCIAYSQLRDQCI 21
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Sequence 28, Appl	Sequence 8583, Ap	Sequence 8584, Ap	Sequence 9447, Ap	Sequence 6880, Ap	Sequence 16119, A	Sequence 27, Appl	Sequence 4577, Ap	Sequence 37136, A	Sequence 52353, A	Sequence 821, App	Sequence 3406, Ap	Sequence 2, Appli	Sequence 2, Appli	Sequence 18354, A	Sequence 7905, Ap	Sequence 21, Appl	Sequence 21, Appl	
US-08-434-099A-28	US-09-949-016-8583	US-09-949-016-8584	US-09-949-016-9447	US-09-949-016-6880	US-09-248-796A-16119	US-08-456-466-27	US-09-621-976-4577	US-09-270-767-37136	US-09-270-767-52353	US-09-640-211A-821	US-09-540-236-3406	US-08-445-746-2	US-09-008-722-2	US-09-248-796A-18354	US-09-328-352-7905	US-08-982-597A-21	US-09-136-218-21	ALIGNMENTS
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44	44	44	43.5	43.5	43.5	43	43	43	43	43	43	43	43	43	42.5	42	42	
28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	

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APPLICANT: GOLD, Lealie I.
APPLICANT: ROSTAGNO, Agueda A.
APPLICANT: BARON, Martin
APPLICANT: BARON, Martin
APPLICANT: WILLIAMS, Michael, J.
TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES, DNA
TITLE OF INVENTION: COLING THEREFOR AND USERS THEREOF
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEB: BROWDY AND NEIMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 120; DB 1; Length 2324; Pred. No. 2e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                      CUMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: Floppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Eloppy disk
COMPUTER: Element of the compatible
COMPUTER: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/283,857
FILNG DATE: 01-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US 07/714,134
FILING DATE: 14-JUN-1991
ATTOMENY/AGERT INFORMATION:
ANAMERICATION NUMBER: US 07/714,134
FILING DATE: 14-JUN-1991
                                                                                                                                                                                                                                                                                                ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D. OSA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GOLD=1A
                    ; Sequence 1, Application US/08283857; Patent No. 5792742; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: GOI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TOPOLOGY: linear;
; MOLECULE TYPE: peptide
US-08-283-857-1
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Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LENGTH:
US-08-283-857-1
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Gaps

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us-09-581-651d-9.rai

IndelB

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0; Mismatches

21; Conservative

Matches

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APPLICANT: KRAFIZSCHWAR, JOERN
APPLICANT: KRAFIZSCHWAR, JOERN
APPLICANT: WINTERHAGER, ELKE
APPLICANT: WINTERHAGER, ELKE
APPLICANT: RECIDEN, PEDDO
APPLICANT: SCOTII, SIMONE
TITLE OF INVENTION: METHOD FOR IN VITRO DIAGNOSIS OF ENDOMETRIOSIS
FILE REFERENCE: SCH-1789
CURRENT APPLICATION NUMBER: US/09/961,403
CURRENT FILING DATE: 2001-09-25
NUMBER OF SEQ ID NOS: 15
SEQ ID NO 1
LENGTH: 2386
                                                                                                                                                                                                                                                                                                                                                                                              PRECENT NO. 5455158

PRECENT NO. 5455158

GUY, RACHELPANET: VOGEL, TIKVA, LEVANON, AVIGDOR; WERBER, MOSHE M.;

GUY, RACHELPANET: AAMOS

TITLE OF INVERTION: FIBRIN BINDING DOMAIN POLYPEPTIDES AND

TITLE OF INVERTION FIBRIN BINDING DOMAIN POLYPEPTIDES AND

WOMBER OF SEQUENCES: 20

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/58,241

FILING DATE: 21-MAY-1993

PRIOR APPLICATION NUMBER: 526,397

FILING DATE: 21-MAY-1990

APPLICATION NUMBER: 245,952

FILING DATE: 28-APR-1989

FILING DATE: 29-DEC-1989

FILING DATE: 29-DEC-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 120; DB 6; Length 2327; 100.0%; Pred. No. 2e-09; ive 0; Mismatches 0; Indels 0;
                                                                                                                                                                    DB 6; Length 2327;
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Pred. No. 2e-09;
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100.0%; Pred. No. ze.
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Patent No. 6780594
GENERAL INFORMATION:
APPLICATION NUMBER: 345,952
FILING DATE: 28-APR-1989
APPLICATION NUMBER: 291,951
FILING DATE: 29-DEC-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: HE-STUMPP, HOLGER APPLICANT: HAENDLER, BERNARD
                                                                                                                                                                  Query Match
Best Local Similarity 100.0
Matches 21; Conservative
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ORGANISM: Homo sapiens
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LENGTH: 2327
                                                                                                         LENGTH: 2327
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                                                                               SEQ ID NO:1
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                                                                                                                                                                                                                                                 TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES, DNA TITLE OF INVENTION: CODING THEREFOR AND USES THEREOF NUMBER OF SEQUENCES: 6
ADDRESSED: BROWDY AND NEIMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 120; DB 5; Length 2324; 100.0%; Pred. No. 2e-09; tive 0; Mismatches 0; Indels 0
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APPLICANT: VOGEL, TIKVA; LEVANON, AVIGDOR; WERBER, MOSHE M.; GUY, RACHEL; PANET, ANG)
GUY, RACHEL; PANET, ANG)
TITLE OF INVENTION: FIBRIN BINDING DOMAIN POLYPEPTIDES AND JUSES AND METHODS OF PRODUCING SAME
NUMBER OF SEQUENCES: 20
NUMBER OF SEQUENCES: 20
FILING DATE: 04-MAY-1993
PRIOR APPLICATION NUMBER: 526,397
FILING DATE: 21-MAY-1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: STATE PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
APPLICATION NUMBER: PCT/US95/09819
                                                                                                                                                                                                                                                                                                                     ADDRESSEE: BROWDY AND NEIWARK STREET: 419 Seventh Street, N.W., Suite 300 CITY: Washington STATE: D.C. COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION DATE:
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/283,857
FILING DATE: 01-AUG-1994
ATTORNEY AGENT INFORMATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: GOLD=1A P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
"TIEFPHONE: 202-737-3528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GOLD=1A PCT
                                                                                                                                                                               Sequence 1, Application PC/TUS9509819
GENERAL INFORMATION:
APPLICANT:
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                                                                               468 VGNGRGEWTCIAYSOLRDOCI 488
                                         1 VGNGRGEWTCIAYSQLRDQCI 21
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INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
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MOLECULE TYPE: peptide
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STRANDEDNESS: si
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1045.483 Million cell updates/sec
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Aab007961 |
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Abb07965 |
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Add39403 |
Add39409 |
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Add39406 |
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Add60404 
GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                          2105692 seqs, 386760381 residues
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                                                                                                November 11, 2005, 07:55:44
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                                                                protein search, using sw model
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AAB08509
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ADD867316
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1 VGNGRGEWTCIAYSQLRDQCI
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Gapop 10.0 , Gapext 0.5
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seq length: 200000000
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•		1588 Human £1b	Human	)519 Human ful	Human	674 Human fib	Human	373 Human fib	Human	1182 Fibronec	7486 Protein d	.106 Human fib	_	378 Fibronect	1726 Human fib	522 Human pro	157 Human ma	1646 Human po	649 Human po	335 NM_ 0020	
	/ Capy	Abr42588	Abo01288	Adr90519	Aar92778	Aau74674	A8e23651	Aap70373	Aar15468	Aag68182	Abu 07486	Abr41106	Abr92078	Adb70378	Adb98726	Ade82522	Adj3715	Aam38646	Aam38649	Abr58335	
	WARS / LO /	ABR42588	ABC01288	ADR90519	AAR92778	AAU74674	AAE23651	AAP70373	AAR15468	AAG68182	ABU07486	ABR41106	ABR92078	ADB70378	ADB98726	ADE82522	ADJ37157	AAM38646	AAM38649	ABR58335	
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9	7007	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
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## ALIGNMENTS

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Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. Sequences AAY28902-906 represent peptide epitopes of MSF against which monoclonal antibodies that are specific to MSF and do not cross-react with fibronectin are
                                                                                                                  Migration stimulatory factor; MSF; cell'migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin.
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 18; Page 57; 86pp; English
         AAY28906 standard; peptide; 21
                                                                                                                                                                                                                                                      98WO-GB003766
                                                                                                                                                                                                                                                                                 97GB-00026539
                                                                                        MSF 1-alpha peptide epitope.
                                                                entry)
                                                                                                                                                                                                                                                                                                                                       Schor SL, Schor AM;
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                                                                                                                                                                                                                                                                                                            (UYDU-) UNIV DUNDEE
                                                                                                                                                                                                                                                                                 16-DEC-1997;
                                                                                                                                                                                                 WO9931233-A1
                                                                                                                                                                                                                                                      15-DEC-1998;
                                                                                                                                                                         Homo sapiens
                                                               21-SEP-1999
                                                                                                                                                                                                                             24-JUN-1999
                                                                                                                                                           Synthetic
                                    AAY28906;
AAY28906
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Sequence 21 AA;

100.0%; Score 120; DB 2; Length 21; 100.0%; Pred. No. 6.8e-11; Best Local Similarity Query Match

Matches

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osteogenesis stimulating fused protein having collagen avidity used osteogenesis stimulator and a localizing agent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention provides an osteogenesis stimulating fused protein (I) for a drug delivery system (DDS) of osteogenetic factor, having collagen avidity and polypeptides homologous to collagen avidity domain or its modified peptides. (I) is used for stimulation of osteogenesis, a localizing agent and a slow releasing agent for a drug delivery system. The present sequence represents a modified human fibronectin collagen-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fibrononectin; collagen-binding domain; sustained release; gene therapy; physiologically active polypeptide; topical retention; chimera; tissue regeneration; epidermal growth factor.
                                                                                                                             Osteogenesis; drug delivery system; DDS; collagen; osteopathic; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hybrid of fibronectin collagen-binding domain/epidermal growth factor.

    341
/note= "human fibronectin collagen-binding domain"

                                                                                             Modified human fibronectin collagen-binding domain.
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Pred. No. 1.2e-09;
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ABB07961 standard; protein; 343
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                                                                (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (revised)
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Best Local Similarity
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N-PSDB; ABL41020
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 343 AA;
                                                                                                                                                                                                                            JP2002058485-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           binding domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
Homo sapiens.
Chimeric.
                                                                                                                                                                                sapiens
                                                                L2-AUG-2002
                                                                                                                                                fibronectin.
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                                                                                                                                                                                              Synthetic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Collagen-binding active polypeptide for use in an agent for enabling topical retention or sustained release of a physiologically active peptide or physiological activity-imparting agent comprises a fibronectin peptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence represents a modified fibrononectin collagen-
binding domain. The protein is used to construct a collagen-binding
physiologically active polypeptide. This polypeptide comprises a peptide
from fibronectin ligated to a physiologically active peptide. The
polypeptides are used in an agent for enabling topical retention or
sustained release of a physiologically active peptide or physiological
activity imparting agent. They may be used in gene therapy and in tissue
                                                                                                                                                                                                                                                                       Fibrononectin; collagen-binding domain; sustained release; gene therapy; physiologically active polypeptide; topical retention; tissue regeneration.
                                                                                                                                                                                                                                             Amino acid sequence of modified fibrononectin collagen-binding domain.
 Gape
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Pred. No. 1.2e-09;
 Mismatches
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N-PSDB; AAA64263.
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Best Loc Matches

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Length 343; Indels PMO-NNO25 170004247 56080991J hw11a08.y hw19f03.y hw19c10.y

170005328 170004706

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AU134619 170004247 AU140889 170004240

UI-H-FL1-AU140450

DKFZp781M IL0-GN024

AU141012

170005319

IL0-GN024 170004241 RC3-CT025

Run on:

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Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 27)
Ansorge, W., Wirkner, U., Mewes, W., Well, B. and Wiemann, S.
ST (Ansorge, W., Wirkner, U., Mewes, H.W., Well, B. and Wiemann, S.)
Unpublished (1999)
Contact: MIP8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from 5. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKPZ); Bull 8. Wiemann@dkfz- heidelberg.de;
sequenced by EMBL (Buropean Molecular Biology Laboratories,
Heidelberg/Germany) within the cDNA sequencing consortium of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       No 81 sequence available.
This clone (DKEZp666N066) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GRRWANY; Email: clone@rzpd.de.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             207 bp mRNA linear EST 04-SI
DKFZp686N066_r1 686 (synonym: hlcc3) Homo sapiens cDNA clone
DKFZp686N066 5', mRNA sequence.
             BFB6874B

CN413466

BC00008B

CN419452

AW853981

AV141012

BC004843

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BC004843

BC004843

CN41355

CN41954

AV14045

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BQ340573
CN419590
CD613819
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BQ312550
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  Command line parameters:
-MODEL-frame+, Dar. model - DEV=x1h
-MODEL-frame+, Dar. model - DEV=x1h
-De_Strone+, Dar. model - DEV=x1h
-De_Strone - JUSPTO spool h/US09581651/runat_07112005_092223_28789/app_query.fasta_1.1834
-DB_ST_0FMT=fastap - SUFPIX=p2n.rst - MINWATCH=0.1 - LOOPCL=0 - LOOPEXT=0
-UNITS=bits - START=1 - END=-1 - MATRIX=blosum62 - TRANS=human40.cdi - LIST=45
-UOCALLGN=200 - THR_SCORE=pct - THR_MAX=100 - THR_MIN=0 - ALIGN=15 - MODE=LOCAL
-OUTFWT=ptc - NORM=ext - HRAPSIZE=500. MININ=0 - MAXIEN=200000000
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-DBV TIMEOUT=120 - WARN TIMEOUT=30 - THREADS=1 - XGAPOP=10 - XGAPEXT=0.5 - FGAPOP=6
-FGAPEXT=7 - YGAPOP=10 - YGAPOP=0.5 - DELOP=6 - DELEXT=7
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BQ340610 PM0-NN025
AA852107 NHTBCae10
B1035180 CM3-NT026
BQ340603 PM0-NN025
BB817152 PM3-BN025
BQ340568 PM0-NN025
CM419560 170005321
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1830.243 Million cell updates/sec
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                                                                                     November 11, 2005, 08:46:42; Search time 436.745 Seconds
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             GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                              nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                34239544 segs, 19032134700 residues
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Maximum Match 100%
Listing first 45 summaries
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Maximum DB seq length: 2000000000
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**6976769** 

Result Š.

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Homo sapiens
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Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Meteria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 242)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Magai,M.A., da Silva,W., "Zago,M.A., Bordin,S., Costa,F.F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deoliveira,P.S., Bucher,P., Jongeneel,C.V.,
O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/organism="Homo sapiens"
/mol type="mRNA"
/mol type="maxns: 960s"
/dev stage="Adult"
/clone_lib="NN0258"
/note="Organ: nervous_normal; Vector: pucl8; Site_1: Smal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BQ340610 242 bp mRNA linear EST 20-MAY-2002
PMO-NN0258-220501-001-e02 NN0258 Homo sapiens cDNA, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tel: +55-11-2704922
Fax: +55-11-2707001
Email: ssimpson@ludig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtmi2.pl?tl=PMO&t2=PMO-NN0258-220501-001-02&t3=2001-05-22&t4=1)
Seq primer: puc 18 forward
High quality sequence start: 16
High quality sequence story: 241.
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Laboratory of Cancer Genetics
Ladwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
/db_xref="taxon:9606"
/clone="DKF2p686N066"
/dev stage="adult"
/lab-host="DH10B"
/clone lib="686 (synonym: hlcc3)"
/note="Vector: pTriplEx2; Site_1: SfiIA; Site_2: SfiIB; cDNA-collection"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Shotgun sequencing of the human transcriptome with ORF expressed
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Mammalia; Euthoria; Primates; Catarrhini; Hominidae; Homo.

E. 1 (bases 1 to 304)

E. J. L. B., Young, M.F., Touchman, J.W., Bouffard, G.G.,
Becketrom-Sternberg, S.W., Green, E.D., Powell, J.I., Yang, L.M.,
Robey, P.G., Hotchkiss, R.N. and Francomano, C.A.
SGAP: The Skeletal Genome Anatomy Project
Unpublished (1997)

L. Ontact: Libin Jia
Medical Genetics Branch
National Human Genome Research Institute
10/10c10; 9000 Rockville Pike, Bethesda, MD 20892-1267, USA
Tel: 301-402-4877
Site_2: Smal; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
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NHTBCae10c08r1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBCae10c08, mKNA sequence.
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/organism="Homo sapiens"
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|db_xref="taxon:9606"
|clone="NHTBCae10c08"
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Seg primer: M13 Reverse.
Location/Qualifiers
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                Copyright
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- nucleic search, using frame_plus_p2n model
OM protein
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Run on:

November 11, 2005, 15:20:41; Search time 107.827 Seconds (without alignments) 1610.594 Million cell updates/sec US-09-581-651D-9 120 1 VGNGRGEWTCIAYSQLRDQCI 21 Xgapop 10.0, Xgapext Ygapop 10.0, Ygapext Fgapop 6.0, Fgapext Delop 6.0, Delext **BLOSUM62** Title: Perfect score: Scoring table: Sequence:

9794790 segs, 4134909567 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

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-DB=Published Applications NA - OFMT=fastap - SUDFIX=p2n.rmpb - MINMATCH=0.1
-LOOPEL10 - LOOPEXT=0 - UNITS=bits - STRAT=1 - RND=-1 - MATRIX=blosum62
-TRANS=human40.cdi - LIST=45 - DOCALIGN=200 - THR SCORE=pct - THR MAX=100
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-MAXEN=200000000 - USRR=US09581651 @CGN 1 1 1041 @runat 07112005 09226_28867
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-LONGLOG - DEV TIMBOUT=120 - WARN TIMBOUT=30 - THREADS=1 - XGAPDP=10 - XGAPEXT=0.5
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Database :

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/cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
/cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*
Published_Applications_NA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

ription	quence 30516,	equence 3051	Sequence 1	quence 16	equence 15	equence 4	9) 4.	equence 4	ednence 7	equence 2	יר פינ	equence 2	equence 5	51	equence 72,	24	ų	'n	499	Seguence 38,	574,	63,	69	7,5	75,	126	77	ence 79,	9	0 0	Segretary 803. App.	587	equence 654	52,	equence 4,	2	equence 77,	equence 245	, 78,		9	74,	
αı	S-10-242-535A	-10-085-783A-3051 19-934-706-8	10-198-846-	09-934-706-16	19-934-706-15	-10-210-120-49	-10-956-157-4	-10-909-035-4	-10-741-601-70	-10-741-600-2	10-/41-601-/5	-10-/41-600-64 -10-450-763-22	-10-144-194A-51	-10-491-566-51	-10-741-601-7	-741-600-2	-10-2	-10-236-392-3	-10-956-157-	3-10-831-704-3	09-964-824A-5	-171 - 311 - 63	-10-236-031B-	-10-374-979-75	10-182-936A-75	-10-641-643-1	-10-717-597-22	-10-788-792-79	-10-477-238A-	0-78/W-0	-10-278-698-	-10-843-641A-5	-477-173-654	-10-852-335A-5	-10-447-161-	-10-084-817-	-10-741-601-77	-10-741-600-2	-10-741-601-78	-10-741-600-	-098	-10-741-601-	
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Sequence 30516, Application US/10242535A
Publication No. US20040013663A1
GENERAL INFORMATION:
APPLICANT: Chondrodene Inc.
APPLICANT: Liew, C.C.
TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
FILE REPERENCE: 4231/2005
CURRENT APPLICATION NUMBER: US/10/242,535A
CURRENT FILING DATE: 2002-09-12
PRIOR PRILICATION NUMBER: US 10/085,783
PRIOR FILING DATE: 2002-02-28
PRIOR APPLICATION NUMBER: US 60/305,340 US-10-242-535A-30516

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US-09-934-706-8
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Publication No. US20040037841A1

GENERAL INFORMATION:

APPLICANT: Chondrodene Inc.

APPLICANT: Liew, C.C.

TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2002

CURRENT APPLICATION NUMBER: US/10/085,783A

CURRENT PILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR FILING DATE: 2001-03-12

PRIOR FILING DATE: 2001-02-28

NUMBER OF SEQ ID NOS: 58994

SOFTWARE: PATENTIN VERSION 3.2

LENGTH: 358
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Matches:
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PRIOR FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: US 60/275,017
PRIOR FILING DATE: 2001-03-12
PRIOR PILING DATE: 2001-02-28
NUMBER OF SEQ ID NOS: 58994
SSEQ ID NO 30516
LENGTH: 358
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Query Match:
DB:
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Best Local Similarity:
Query Match:
DB:
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259 ATT 261
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; ORGANISM: Human
US-10-085-783A-30516
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                                                                                                                                         TYPE: DNA
ORGANISM: Human
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Pred. No.:
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PEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Modified Human OTHER INFORMATION: Pibronectin Collagen-Binding Domain NAME/KEY: conflict
LOCATION: (109)
NAME/KEY: conflict
LOCATION: (206)
NAME/KEY: conflict
LOCATION: (270)
LOCATION: (374)
NAME/KEY: conflict
LOCATION: (374)
NAME/KEY: conflict
LOCATION: (374)
NAME/KEY: conflict
LOCATION: (681)
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US-10-198-846-11556/C

| Sequence li556, Application US/10198846
| Publication No. US20030099974A1
| GENERAL INFORMATION:
| APPLICANT: Lillie, James
| APPLICANT: Allien Steinmann, Kathleen APPLICANT: Steinmann, Kathleen TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS TITLE OF INVENTION: THERAPY OF BREAST CANCER TITLE OF INVENTION: THERAPY OF BREAST CANCER TITLE OF INVENTION UNBER: US/10/198,846
| CURRENT FILING DATE: 2002-07-18
| PRIOR FILING DATE: 2001-07-18
| NUMBER OF SEQ ID NOS: 14084
| SOSTWARE: FASESEQ FOR WINDOWS VERSION 4.0
ASQUENCE 8, Application US/09934706
Sequence 8, Application US/09934706
Sequence 8, Application US/09934706
Sequence 8, Application US/09934706
PAPELICANT: Terumo Corporation
TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Exercivity
TITLE OF INVENTION: 2001-09-23
CURRENT APPLICATION NUMBER: 2001-09-23
NUMBER OF SEQ ID NOS: 16
SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 ValGlyAsnGlyArgGlyGluTrpThrCysIleAlaTyrSerGlnLeuArgAspGlnCys
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Matches:
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                                                                                                                                                                                                                                                                                                                                           TYPE: DNA
ORGANISM: Artificial Sequence
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Pred. No.:
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LENGTH: 1189
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Sequence 38, Application US/09220132

Sequence 38, Application US/09220132

Patent NO. 6566607

GENERAL INFORMATION:
APPLICANT: Shyjan, Andrew W.
TITILE OF INVENTION: METHODS AND COMPOSITONS FOR THE IDENTIFICATION AND ASSESSMENT
TITLE OF INVENTION: OF PROSTATE CANCER THERAPIES AND THE DIAGNOSIS OF PROSTATE CANCE
FILE REFERENCE: 07334-074001
CURRENT APPLICATION NUMBER: US 60/079,303
PRIOR FILING DATE: 1998-12-23
PRIOR FILING DATE: 1998-12-24
NUMBER OF SEQ ID NOS: 191
SOFTWARE: FREESEQ for Windows Version 4.0
SEQ ID NO 38
LENGTH: 7679
Sequence 30, Appl
Sequence 29, Appl
Sequence 29, Appl
Sequence 29, Appl
Patent No. 5455158
Sequence 160046,
Sequence 16199, A
Sequence 1219, A
Sequence 17347, A
Sequence 17347, A
Sequence 17347, A
Sequence 17348, A
Sequence 15, Appl
Sequence 15, Appl
Sequence 11, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 14, Appl
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Sequence 9, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 ValGlyAsnGlyArgGlyGluTrpThrCysIleAlaTyrSerGlnLeuArgAspGlnCys
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US-08-259-569-30

US-08-259-685-30

US-08-826-885-29

US-08-826-885-29

5455158-9

US-09-949-016-160046

US-09-949-016-16219

US-09-949-016-12498

US-09-949-016-12498

US-09-949-016-12477

US-09-949-016-12347

US-09-949-016-12348

US-09-949-016-12348

US-09-949-016-12348

US-09-949-016-12029

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US-08-644-6648-8

US-08-715-808-15
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Matches:
Conservative:
Mismatches:
Indels:
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5225348-8
5225348-9
US-08-644-664B-11
US-08-761-277A-11
US-09-826-025-14
US-07-757-536B-1
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US-09-718-096-9
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US-09-220-132-38
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Best Local Similarity:
Query Match:
DB:
                                                             Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-220-132-38
                                                                                                                                                                                TYPE: DNA
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-MODEL-frame+, p2n.model -DEV=xlh
-MODEL-frame+, p2n.model -DEV=xlh
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-D=/cgn2_1/USFTO_spool__MUS09581651/runat_07112005_092224_28801/app_query.fasta_1.1834
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-LIST=65_DOCALLIGN=200 -THR_SCORE=pcr -THR_MAX=100 -THR_MIN=0
-MODEL-COAL_-OUTFMT=pcr -NORM=cxt -HEAPS1ZE=500 -MINLEN=0 -MAXLEN=200000000
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-NO_WMAP -LARGEQUERY -NGG_SCORES=0 -WAT1 -DSPBLOCK=100 -LONGLOG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1289, Apples Sequence 6, Appli Sequence 16, Appli Sequence 16, Appli Patent No. 5455158 Sequence 1, Appli Sequence 1, Appli Sequence 8, Appli Sequence 8, Appli Sequence 8, Appli
                                                                                                      November 11, 2005, 08:49:16; Search time 21.1373 Seconds (without alignments) 1625.652 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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    /cgn2_6/ptodatca1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodatca1/ina/6A_COMB.seq:*
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5: /cgn2_6/ptodatca1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodatca1/ina/PcTUS_COMB.seq:*
                 GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
                                                                             - nucleic search, using frame plus p2n model
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US-09-023-655-1289
PCT-US95-09819-6
US-08-826-885-16
5455188-2
US-08-826-885-1
545518-2
US-08-551-356-1
US-09-566-921-135
US-09-566-921-135
US-07-637-250A-8
US-08-145-061-8
                                                                                                                                                                                                                                                                                                                                                   hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                      1202784 segs, 818138359 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
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1 VGNGRGEWTCIAYSQLRDQCI 21
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
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Maximum DB seq length: 200000000
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Perfect score:
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## Sequence 1289, Application US/09023655
| Patent No. 6607879
| GENERAL INFORMATION:
| APPLICANT: Cocks Benjamin G. APPLICANT: Useffrey J. Seilhamer |
| APPLICANT: Jeffrey J. Seilhamer |
| TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE |
| TITLE OF INVENTION: EXPRESSION |
| NUMBER OF SEQUENCES: 1508 |
| CORRESPONDENCE ADDRESS: 1508 |
| COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1415 GTTGGGAATGGTCGTGGGGAATGGACATGCCTACTCGCAACTTCGAGATCAGTGC 1474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 ValGlyAsnGlyArgGlyGluTrpThrCysIleAlaTyrSerGlnLeuArgAspGlnCys 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: USA

ZIR: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
FILING DATE:
CLASSIFICATION:
ATTORNEY AGENT INFORMATION:
REGISTRATION NUMBER: PA-0001 US
REGISTRATION INFORMATION:
REGISTRATION INFORMATION:
TELEFANCE (650) 845-055
TELEFANCE (650) 845-4166
INFORMATION FOR SEQ ID NO: 1289:
SEQUENCE CHARACTERISTICS:
LENGTH: 7680 base pairs
TYPE: NUCLEIC acid
STRANDEDNESS: Single
TYPE: ACID CONCE:
LIMBEDIATE SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
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Indels:
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Best Local Similarity:
                                             1475 ATT 1477
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US-09-023-655-1289
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1475 ATT 1477

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Sequence 6, Application PC/TUS9509819
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: CODING THEREFOR AND USES THEREOF
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: RAWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Vogel, Tikva
APPLICANT: Levanon, Avigdor
APPLICANT: Werber, Moshe
APPLICANT: Werber, Moshe
APPLICANT: Panet, Amos
APPLICANT: Panet, Amos
APPLICANT: Shaked, Haddassa
APPLICANT: Shaked, Haddassa
ATTLE OF INVENTION: FIBRIN BINDING DOMAIN POLYPEPTIDES AND
                                                                                                                                                                                                                                              ZIP: 2004
COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09819
FILING DATE:
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Conservative:
Mismatches:
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                                                                                                                                                                                                                                                                                                                                                                                                         FILLING DATE:
PRIOR APPLICATION DATA:
PRIOR APPLICATION UNDBER:
FILLING DATE: 01-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, ROGET L.
REGISTRATION NUMBER: 25,618
REFRENCE/DOCKET NUMBER: 35,618
REFRENCE/DOCKET NUMBER: GOLD=1A PC
TELECOMMUNICATION INFORMATION:
TELEFRAX: 202-288-5197
TELEFRAX: 202-737-3528
TELEFRAX: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 7680 base pairs
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; Patent No. 5679320
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STRANDEDNESS: single
                                                                                                                                                                                         CITY: Washington STATE: D.C.
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APPLICANT: Vogel,
APPLICANT: Levanon
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Sequence:

Title: Perfect

Run on:

Searched:

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Ab141028 Human fib
Ads64270 Fibronect
Ad27467 Human fib
Ad418477 Human fib
Ad418477 Human mig
Adx81259 Human bla
Ad438575 Human SNP
Ad43851 Human SNP
Ad43851 Human SNP
Ad43851 Human GN
Ad59514 Human min
Ad59514 Human Gec
Ad75958 Human aec
Ad75958 Human acb
Ad75958 Human acb
Ad7666189 Human acb
Ad766189 Human cDN
Ad766189 Human cDN
Ad765953 Human CDN
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Adb31322 Testcoster
Aat17551 Human Lib
Aaf21131 Human Low
Aba82689 Fibronect
Ab11082 Human Eb
Act03878 Human Eb
Act03878 Human Eb
Acc46009 Human Eb
Acc46009 Human Eb
Acc46009 Human Eb
Acc46017 Fibronect
Aca64817 Human Eb
Aca64817 Human Eb
Adb70377 Fibronect
Adb70377 Fibronect
Adb70377 Fibronect
Abl41027 Human fib
Abl41028 Human fib
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human, de, hepatocyte growth factor; HGF; collagen binding domain; fibronectin; artificial blood vessel; stent; tissue regeneration;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hepatocyte growth factor HGF derivative for inducing angiogenesis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human fibronectin collagen binding domain DNA SeqID 3.
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                                                                                        ADR67201
AD038575
AD038575
AD038575
AD85954
ADP75958
AD075958
AD038579
AD038579
AD038579
AD038579
AD038579
AD08599
ACC00412
ACC0412
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ACF03878
ABX10391
ACC46009
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 JP2004269423-A.
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ADS19042
                           -MODEL-frame+_pin.model -DEV=xlh
-MODEL-frame+_pin.model -DEV=xlh
-MODEL-frame+_pin.model -DEV=xlh
-Q=/Cgn12_1/USPF0 gpool h/USOS981651/runat 07112005_092222_28772/app_query.fasta_1.1834
-DE-ALGA-FORD-FORD-FORD-FORD-FORD-FORD-FORD-T-LIST-45
-UNITS-bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST-45
-UNITS-bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST-45
-UNITS-bits -START=1 -END=-1 -MATRIX=100 -TRANS=human40.cdi -LIST-45
-UNITS-bits -START=1 -END=-1 -MATRIX=100 -TRANS=LOONO0000
-USRE-USOS981651 @CGN 1 1 1052 @runat_07112005_09222_28772 -NCPU=6 -ICPU=3
-NO MMAP -LARAFBÜERY -NGF SCORES=0 -MAXIX-BIDGCK=100 -LONGLOG
-DBV TIMEOUT=120 -WARN TIMEOUT=30 -THRADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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Ab141020 Modified
Acn90406 Breast ca
Aaa64271 Fibronect
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                                                                                        November 11, 2005, 08:30:56 ; Search time 68.8471 Seconds (without alignments) 1805.663 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description
                                                                                                                                                                                                                                                                                                      8780412
               GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
                                                                 nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                      of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                            4390206 segs, 2959870667 residues
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Listing first 45 summaries
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AAA64263
ABL41020
ACN90406
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                                                                                                                                                                     VGNGRGEWTCIAYSQLRDQCI 21
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Ygapop 10.0 , Ygapext
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seq length: 200000000
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Result Š

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Kitajima

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Ishikawa

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This invention relates to a novel hepatocyte growth factor (HGF) derivative. Specifically, it refers to a fusion protein containing an HGP polypeptide and the collagen binding domain of fibronectin, where the collagen binding property and the HGF activity are maintained. The present invention describes this HGF derivative as a live organ transplant material that can be an artificial blood vessel or a stent in which the collagen material is bound on its surface in a sheet-like molding. Accordingly, it is useful for inducing and enhancing angiogenesis (compared to natural type HGF) in damaged tissue and thus can enhance tissue regeneration. Furthermore, it exhibits vulnerary activity with increased stability and collagen binding properties. This polynucleotide sequence is the DNA encoding the human fibronectin exemplification of the invention.
 other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               640 GTTGGGAATGGTCGTGGGGGAATGGACATGCATTGCCTACTCGCAGCTTCGAGATCAGTGC 699
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 ValGlyAsnGlyArgGlyGluTrpThrCyslleAlaTyrSerGlnLeuArgAspGlnCys
comprises fusion protein containing HGF polypeptide and polypeptide c
than HGF, and polypeptide having collagen binding property connected
directly or through intron.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*tag= a
/product= "fibrononectin collagen-binding domain"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cDNA encoding a modified fibrononectin collagen-binding domain.
                                                                                                                                                                                                                                                                                                                           Sequence 1051 BP; 274 A; 262 C; 281 G; 234 T; 0 U; 0 Other;
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21
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Matches:
Conservative:
Mismatches:
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                                                         Example 1; SEQ ID NO 3; 51pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-581-651D-9 (1-21) x ADS19042 (1-1051)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA64263 standard; DNA; 1053 BP.
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99JP-00311364.
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01-NOV-1999;
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Collagen-binding active polypeptide for use in an agent for enabling topical retention or sustained release of a physiologically active peptide or physiological activity-imparting agent comprises a fibronectin peptide.
                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence encodes a modified fibrononectin collagen- binding domain. The protein is used to construct a collagen-binding physiologically active polypeptide. This polypeptide comprises a peptide from fibronectin ligated to a physiologically active peptide. The polypeptides are used in an agent for enabling topical retention or sustained release of a physiologically active peptide or physiological activity-imparting agent. They may be used in gene therapy and in tissue regeneration
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                                                                                                                                                                                                                                                                                                                                                                                              1 ValGlyAsnGlyArgGlyGluTrpThrCyslleAlaTyrSerGlnLeuArgAspGlnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified human fibronectin collagen-binding domain encoding DNA
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Mismatches:
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Matches:
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681
                      WPI; 2000-565375/52.
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BD133465 ColÍagen-
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BD133476 Whbrid po
BD13477 Whbrid po
CQ871810 Sequence
CQ871828 Sequence
AZ07635 Homo sapi
AZ035086 Homo sapi
CQ7757526 Sequence
BX538045 Homo sapi
CQ775726 Sequence
BX538045 Homo sapi
AZ07515726 Sequence
BX538045 Homo sapi
AZ0751576 Sequence
BX538045 Homo sapi
AZ07516 Homo sapi
AZ07516 Sequence
AZ07696 Sequence
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AZ0761 Homo sapi
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AR191261 Homo sapi
AR051657 Sequence
BX640608 Homo sapi
BX640802 Homo sapi
BX640802 Homo sapi
CQ833991 Sequence
CQ873357 Sequence
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Sequence
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Homo sapi
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
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BX640731 Homo sap
AR454662 Sequence
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Compositions and methods relating to osteoarthritis
Patent: WO 02070737-A 30516 12-SEP-2002;
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    .358
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

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HSPTB1
AX27754
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-MODEL=frame+_pzn.model -DEV=xlh
-MODEL=frame+_pzn.model -DEV=xlh
-G-Cgnz 1/USFTO spool h/US09581651/runat 07112005 092223 28778/app_query.fasta_1.1834
-G-Cgnz 1/USFTO spool h/US09581651/runat 07112005 092223 28778/app_query.fasta_1.1834
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BD133458 Collagen-
BD133469 Hybrid po
E63263 Collagen-bi
                                                                                                                           November 11, 2005, 08:45:16; Search time 562.251 Seconds (without alignments) 1809.796 Million cell updates/sec
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                    GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                           - nucleic search, using frame_plus_p2n model
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                                                                                                                                                                                                                                                                                                                                                                                                                                             number of hits satisfying chosen parameters:
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BD133469
E63263
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
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PN JP 2002058485-A/3
PN JP 2002058485-A/3
PN JP 2002058485-A/3
PN JP 2002058485-A/3
PP C 12 NIS/00 JP 2000246744
PI TAKASHI KITAJIMA, TETSUYA ISHIKAWA
PC C12N15/09, A6IK38/48, A6IK48/00, A6IP19/08, A6IP19/10, CO7K14/51,
PC C12N15/09, A6IK38/48, A6IK48/00, A6IK37/ PC C07K19/00, CI2N1/15, CI2N1/19, CI2N1/21, CI2N5/10, CI2N1/15, CI2N1/19, CI2N1/21, CI2N5/00
CC Description of Artificial Sequence: Modified Human Fibronectin CC Description of Artificial Sequence: Modified Human Fibronectin FF Conflict (109)
FT Conflict (206)
FT Conflict (206)
FT Conflict (817)
FT CONFLICT (206)
FT CONFLICT (206)
FT CONFLICT (207)
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                                                                       Artificial Sequence
JP 2002058485-A/3
26-FEB-2002
16-AUG-2000 JP 2000246744
TAKASHI KITAJIMA, TETSUYA ISHIKAWA
C12N15/09, A61K38/48, A61K48/00, A61P19/08, A61P19/10, C07K14/51,
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synthetic construct
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there is artificial sequences.

(bases I to 1053)

Kitalima, T. and Ishikawa, T.

Collagen-binding osteogenesis promotion fused protein
patent: JP 2002058485-A 3 26-FEB-2002;
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BD133458
BD133458.1 GI:23228403
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
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RESULT

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BD133469 1053 bp DNA linear PAT 18-SEP-2002 Hybrid polypeptide having collagen-binding activity and neovascularization-adjusting activity.
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Collagen-Binding Domain
Key (109)
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C12N1/19,C12N1/21,C12N5/10//C12N15/09,A61K37/02,C12N5/00, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Artificial Sequence
JP 2002060400-A/3
26-FEB-2002
17-AUG-2000 JP 2000247379
TETSUYA ISHIKAWA TAKASHI KITAJIWA
COTKIS 00, A61K38/00, A61K47/48, A61P9/10, COTKI4/515, COTKI4/78,
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(bases 1 to 1053)

Inhikawa,T. and Kitajima,T.
Collagen-binding physiologically active polypeptide patent: JP 2001190280-A 3 17-JUL-2001;
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Conservative:
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/organism="synthetic construct"
/mol_type="genomic DNA"
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Location/Qualifiers
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                                                                              November 11, 2005, 07:57:14; Search time 6.14379 Seconds (without alignments) 1666.981 Million cell updates/sec
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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Q6MZF4
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Maximum Match 100%
Listing first 45 summaries
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1 TDHTVLVQTRGGNSNGALCH 20
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Gapop 10.0 , Gapext 0.5
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1: uniprot_sprot:*
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09T1D8 080P06 086MY2 06 WY2 06 PP33 09WYL6 09PWS 09 PWS 09 O CANFA 071U09 09 S241	RELIMINARY;  PRT; 749 AA.  (TrEMBLEG: 25, Created) (TrEMBLEG: 26, Last sequence update) (TrEMBLEG: 26, Last sequence update) (TremBLEG: 26, Last annotation update) (TremBLEG: 26, Last annotation update) (Fullan): (Human): (Human	ank/DDBJ 7F3ED2F0D	Score 110; DB 2; Pred. No. 6.3e-09; Mismatches 0 20	ARY; PRT; 1103 AA. el. 27, Created) el. 27, Last sequence update) el. 27, Last annotation update) DKFZp686K139 (Hypothetical pro
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RP 114

RP 115

RP 115SUE=Human cervix;

RC TISSUE=Human cervix;

RT 416 German Human coDNA Consortium;

Ameorge W., Krieger S., Regiert T., Rittmueller C., Schwager B.,

RA Mewes H.W., Weil B., Amid C., Osanger A., Pobo G., Han M., Wiemann S.;

RA Mewes H.W., Weil B., Amid C., Osanger A., Pobo G., Han M., Wiemann S.;

RL 51461818 BX649182; CAB462001; -

REMBL; BX649182; CAB468001; -

REMBL; BX649182; CAB45885.1; -

REMBL; BX640802; CAE45885.1; -

REMBL; BX640802; CAE45885.1; -

REMBL; BX640802; CAE45885.1; -

REMBL; BX600083; Fibrnctn1.

RITCEPPO; IPR000893; Fibrnctn1.

RITCEPPO; IPR000995; FW III-11.

REMBL; PR00013; FWIYPEII.

REMBL; RANO0069; FWI 7.90-II; 2.

REMBL; SMO0059; FWI 7.90-II; 2.

REMBL; SMO0069; FWI 7.

REMBL; SMO0069; FWI 7.

REMBL; SMO0069; FWI 7.

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TISSUE-Human uterus endothel primary cell culture;
The German Human cDNA Consortium;
The German Human cDNA Consortium;
The German Human cDNA Consortium;
Han M., Wiemann S.;
Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; BX640999; CA846002.1;
GO; GO:0005576; C:extracellular; IEA.
InterPro; IPR002086; Aldahyd dahydrog.
InterPro; IPR006099; EGF_like.
InterPro; IPR006099; Fibrnctnl.
InterPro; IPR003962; Fill subd.
InterPro; IPR003962; Fill subd.
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05-JUL.2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686012165 (Fragment).
Name=DKFZp686012165;
Name=DKFZp686012165;
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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SEQUENCE 1103 AA; 122113 MW; 82FEC4CAF634AD56 CRC64;
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Name=DKFZp686K139; Synonyms=DKFZp686F219;
Homo sapiens (Human)
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REALLY CARREST SEQUENCE S., Schaipp A.,

REALLY CARREST S., Obermaier B., Deutschenbaur S., Schaipp A.,

REALLY CRY49317; CAH18172.1; -

REALLY SEROO1956; FN III.

REALLY SEROO1956; FN III.

REALLY SEROO11; FN III.

REALLY SEROO11; FN TYPEII.

REALLY SEROO11; FN TYP
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE 2193 AA; 240641 MW; F876E93106540EF3 CRC64;
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25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein DKFZp686H0342.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT; 2240 AA
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FN_III-like.
FN_Type_II.
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Matches 20; Conservative C
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein November 11, 2005, 08:12:29; Search time 1.51634 Seconds (without alignments) 1269.066 Million cell updates/sec Run on:

US-09-581-651D-8 Title: Perfect score:

1 TDHTVLVQTRGGNSNGALCH 20 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 200000000 Minimum DB Maximum DB

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 su

summaries

PIR 79:*
1: pirl:*
2: pir2:*
3: pir3:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		æ			SUMMARIES	
Result No.	Score	Query	Query Match Length	DB	ΙD	Description
	110	100.0	2265	-	FNBO	fibronectin - bovi
7	106	96.4	2386	-	FNHU	fibronectin precur
٣	105	95.5	2477	7	S14428	
4	81	73.6	2481	~	A43908	c
Ŋ	55	50.0	707	-	A34458	ш
9	53	48.2	730	٦	152580	gelatinase B (EC 3
7	23	48.2	730	~	JC1456	m
80	52	47.3	3519	N	S43048	polyketide synthas
6	48	43.6	747	N	T36812	probable dehydroge
10	47	42.7	157	~	T44794	hypothetical prote
11	47	42.7	340	(1	T32931	hypothetical prote
12	47	42.7	340	7	C87732	protein W03D8.4 [i
13	47	42.7	438	-	A57667	pop-1 protein - Ca
14	47	42.7	708	~	JC4364	ф
15	47	42.7	708	7	S62907	gelatinase B (EC 3
16	47	42.7	1079	~	A70972	probable DNA polym
17	46	41.8	493	7	T06031	
18	46	41.8	707	Н	A53796	gelatinase B (EC 3
19	46	41.8	712	ч	146031	m
20	44	40.0	413	~	JC2135	chitinase (EC 3.2.
21	44		909	~	T09892	hypothetical prote
22	44	40.0	843	7	T06068	
23	43	39.1	237	~	A98357	hypothetical prote
24	43	39.1	237	7	AD2925	
25	43	σ	692	~	H69961	c
56	43	39.1	1430	~	T12449	hypothetical prote
27	42.5	38.6	183	~	D87614	
28	42	38.2	288	7	T10477	sec13 protein - ye
29	42	38.2	801	7	H83737	glucosidase BH0704

III repeat homology <FN3A> III repeat homology <FN3B> III repeat homology <FN3C>

F;439-477/Domain: fibronectin type I repeat homology <1F7>
F;487-524/Domain: fibronectin type I repeat homology <1F8>
F;530-568/Domain: fibronectin type II repeat homology <FF9>
F;580-61/Domain: fibronectin type III repeat homology <FFNF8>
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Firmal fibronectin type III repeat homology <FFNF8>
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unknown protein F5 BlpN protein (impo	100	fibronectin - east tagatose-1,6-bisph cell division prot	hypothetical prote gelatinase A (EC 3 gelatinase A (EC 3	gelatinase A (EC 3 gelatinase A (EC 3 gelatinase A (EC 3	hypothetical prote ribonucleoside-dip
D96730 H95062	ASLJCY JQ1125 T08237	I51279 F43258 D87564	T23001 A28153 S70365	A42496 S34780 S46492	T20109 F81728
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884	104 182 182	190 325 423	430 660 662	662 662 663	756 1047
38.2	37.3 37.3 37.3	37.3 37.3 37.3	37.3 37.3 37.3	37.3 37.3 37.3	37.3 37.3
42	444	444	444	444	41
30 31	9 9 9 4 9 2	35 37 37	8 6 6 8 9 0	4 4 4 1 2 6	4 4 5

## ALIGNMENTS

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A,Cross-references: UNIPROT:P07589
R;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
R;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
R;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
A;Title: Isolation and characterization of cDNA clones for human and bovine fibronectins
A;Reference number: A21165; MUID:8321567; PMID:6304699
A;Accession: B21165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A,Molecule type: mRNA
A,Residues: 2170-2265 «KOR»
A,Cross-references: GB:K00800, NID:g163055, PIDN:AAA30521.2; PID:g5713323
A,Cross-references: GB:K00800, NID:g163055, PIDN:AAA30521.2; PID:g5713323
R,Petersen, T.E.; Thogersen, H.C.; Skorstengaard, K.; Vibe-Pedersen, K.; Sahl, P.; Sottz-Proc. Natl. Acad. Sci. U.S.A. 80, 137-141, 1983
Proc. Natl. Acad. Sci. U.S.A. 80, 137-141, 1983
A,Title: Partial primary structure of bovine plasma fibronectin: three types of internal
A,Reference number: A23292; MUID:83117805; PMID:6218503
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A, Molecule type: protein
A, Molecule type: protein
A, Molecule type: protein
A, Molecule type: protein
A, Molecule type: protein
A, Mesidues: 1-16, CC, 18-20, SY, 22-432;447-463;1367-1517;1567-1673;2062-2176, NV, 2178-226
C, Comment: The plasma fibronectin molecule consists of two chains, which are connected to C, Comment: Plasma fibronectin molecule consists of two chains, which are connected to C; Comment: Plasma fibronectin fishape
aling, and maintenance of cell shape.
C; Comment: Plasma fibronectin fi s synthesized by hepatocytes.
C; Superfamily: fibronectin; fibronectin type I repeat homology; fibronectin type II rep
C; Keywords: acute plass; alternative splicing; collagen binding; duplication; extracelly:
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F; 10-148/Domain: fibronectin type I repeat homology <-1F3>
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F; 20-239/Domain: fibronectin type I repeat homology <-1F5>
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C;Species: Bos primigenius taurus (cattle)
C;Date: 31-Dec-1988 #sequence revision 31-Dec-1988 #text_change 09-Jul-2004
C;Date: 31-Dec-1988 #sequence revision 31-Dec-1988 #text_change 09-Jul-2004
C;Accession: A26452; B21165; A23292
R;Skorstengaard, K.; Jensen, M.S.; Sahl, P.; Petersen, T.E.; Magnusson, S. Bur. J Biochem. 161, 441-453, 1986
A;Title: Complete primary structure of bovine plasma fibronectin.
A;Reference number: A26452; MUID:87054047; PMID:3780752
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/Domain: fibronectin type II repeat homology <2F1>
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FEBS Lett. 207, 287-291, 1986
A,Title: Donor and acceptor aplice signals within an exon of the human fibronectin gene-
A,Reference number: A24854, MUID:87030929, PMID:3770201
                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Mesidues: 1-14, 'Q',16-38 <GUT>
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R; Kornblintt, A.R.; Umezawa, K.; Vibe-Pedersen, K.; Baralle, F.E.
EMBO J. 4, 1755-1759, 1985
A; Title: Primary structure of human fibronectin: differential splicing may generate at 1,
A; Reference number: A91008; MUID:85284965; PMID:2992939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Status: nucleic acid sequence not shown
A;Residues: nucleic acid sequence not shown
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A;Residues: 32-1344,1346-2080;2112-2386 <KOR>
A;Cross-references: GB:XO2761
B;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
A;Triels Acids Ress. 12, 5853-5868, 1984
A;Title: Human fibronectin: cell specific alternative mRNA splicing generates polypeptid
A;Reference number: A93529; MUID:84272258; PMID:6462919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Modecule type: mRNA
A; Residues: 1434-1537 <0L2>
A; Cross-references: GB: K00055; NID: g182680; PIDN: AAA52459.1; PID: g182683
F; Bernard, M.P.; Kolbe, M.; Weil, D.; Chu, M.L.
Biochemistry 24, 2698-2704, 1985
A; Title: Human cellular fibronectin: comparison of the carboxyl-terminal portion with rand A; Reference number: A90495; MUID: 85280409; PMID: 2992573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Risekiguchi, K.; Klos, A.M.; Kurachi, K.; Yoshitake, S.; Hakomori, S.
Bochemistry 25, 4936-4941, 1986
A;Title: Human liver fibronectin complementary DNAs: identification of two different mes.
A;Reference number: I52394; MUID:87026578; PMID:3021206
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A;Residues: 1978-1990,2016-2018,'N',2020-2081,2113-2127 <SEK>
A;Cross-references: GB:M14060; NID:g182701; PIDN:AAA52464.1; PID:g182704
A;Cross-references: GB:Pedersen, K.; Baralle, F.E.
Proc. Natl. Acad. Sci. U.S.A. 80, 3218-3222, 1983
A;Title: Isolation and characterization of cDNA clones for human and bovine fibronectine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Oldberg, A.; Linney, E.; Ruoslahti, E.
J. Biol. Chem. 258, 10193-10196, 1983
A;Title: Molecular cloning and nucleotide sequence of a cDNA clone coding for the cell
A;Reference number: A21011; MUID:83290929; PMID:6688418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Molecule type: mRNA
A; Readidues: 1594-2386 <BER>
A; Cross-references: GB: MN0905; NID: 9182696; PIDN: AAA52462.1; PID: 9182697
R; Umezawa, K.; Kornblihtt, A.R.; Baralle, F.E.
FBBS Lett. 186, 31-34, 1985
A; Title: Isolation and characterization of CDNA clones for human liver fibronectin.
A; Reference number: A22245; MUID: 85231203; PMID: 2989004
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A,Cross-references: GB:M27589; NID:g182705; PIDN:AAA52465.1; PID:g182706
                                                                                                                                                                 R;Gutman, A.; Yamada, K.M.; Kornblihtt, A.
FEBS Lett. 207, 145-148, 1986
A;Title: Human fibronectin is synthesized as a pre-propolypeptide.
A;Reference number: A24476; MUID:87030890; PMID:3770189
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K.; Magnusson, S.; Baralle,
                                                                                                              A,Molecule type: DNA
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0; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    371 TDHTVLVQTRGGNSNGALCH 390
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100.0%;
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Best Local Similarity 100.
Matches 20; Conservative
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Run on:

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OTHER INFORMATION: Description of Artificial Sequence: Human Fibronectin OTHER INFORMATION: Collagen-binding Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-344-634-4

Sequence 4, Application US/10344634

Sequence 4, Application US/10344634

Publication No. US20040053388A1

GENERAL INFORMATION:

APPLICANT: ISHIKawa, Tetsuya

APPLICANT: Kitajima, Taksshi

TITLE OF INVENTION: Collagen-Binding Hybrid Polypeptide

FILE REFERENCE: 2029650-132

CURRENT FILING DATE: 2003-06-18

PRIOR APPLICATION NUMBER: DCT/JP01/07036

PRIOR FILING DATE: 2001-08-15

PRIOR APPLICATION NUMBER: DC 2000-246341

PRIOR FILING DATE: 2000-08-15

NUMBER OF SEQ ID NOS: 16

SOFTWARE: FREUSEQ for Windows Version 4.0
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SEQ ID NO 4
LENGTH: 228
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Sequence 1066, Ap
Sequence 359, App
Sequence 1072, Ap
Sequence 356, App
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Sequence 14, Appl
Sequence 5, Appli
Sequence 4, Appli
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Sequence 16, Appl
                                                                                                                        November 11, 2005, 08:29:55 ; Search time 6.77124 Seconds (without alignments) 1235.843 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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(cgn2_6/ptodata/1/pubpaa/USO6_PUBCOMB.ppp:*
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(cgn2_6/ptodata/1/pubpaa/USO6_PUBCOMB.ppp:*
(cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.ppp:*
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(cgn2_6/ptodata/1/pubpaa/USO0_PUBCOMB.ppp:*
                   GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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US-09-934-706-1
US-09-934-706-5
US-09-934-706-4
US-10-741-601-354
7 US-10-741-601-1066
US-10-741-601-1075
6 US-10-741-601-1072
6 US-10-741-601-359
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Maximum Match 100%
Listing first 45 summaries
                                                                                         OM protein - protein search, using sw model
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1 TDHTVLVQTRGGNSNGALCH 20
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 2000000000
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1071, Ap 2, Appli 64, Appl 70, Appl 98, Appl

Sequence Sequence Sequence

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Sequence

ALIGNMENTS

Sequence 3 Sequence 3 Sequence 3 Sequence 1 Sequence 1 Sequence 1 Sequence 2 Sequence 2 Sequence 3 Sequence 3 Sequence 3 Sequence 3 Sequence 3

US-10-741-600-1069
US-10-450-741-601-363
US-10-236-392-4
US-10-236-392-4
US-10-236-392-4
US-10-741-601-363
US-10-741-601-363
US-10-144-194A-104
US-10-144-194A-104
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US-10-741-601-360
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US-10-374-979-98
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113 TDHTVLVQTRGGNSNGALCH 132
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Sequence 1, Application US/09934706

Sequence 1, Application US/09934706

Sequence 1, Application US/09934706

GENERAL INFORMATION:
TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Activity
FILE REPERENCE: 19990120

CURRENT APPLICATION NUMBER: US/09/934,706

CURRENT FILING DATE: 2001-08-23

NUMBER OF SEQ ID NOS: 16

SOFTWARE:
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OTHER INFORMATION: /note="human fibronectin collagen-binding domain"
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100.0%; Score 110; DB 9; Length 343;
Best Local Similarity 100.0%; Pred. No. 2.5e-08;
Matches 20; Conservative 0; Mismatches 0; Indels
                                        US-10-344-634-16

| Sequence 16, Application US/10344634
| Publication No. US200400533681
| Sequence 16, Application No. US200400533681
| GENERAL INFORMATION:
| APPLICANT: ISHIKAWA, Tatsuya
| APPLICANT: Kitajima, Takashi
| TITLE OF INVENITON: Collagen-Binding Hybrid Polypeptide
| FILE REFERENCE: 029650-132
| CURRENT FILING DATE: 2003-06-18
| PRIOR APPLICATION NUMBER: PCT/JP01/07036
| PRIOR PILING DATE: 2000-08-15
| PRIOR PILING DATE: 2000-08-15
| NUMBER OF SEQ ID NOS: 16
| SSOTTARE: PSECSEQ for Windows Version 4.0
| SSOTTARE: PSECSEQ for Windows Version 4.0
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ORGANISM: Artificial Sequence
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LENGTH: 343
TYPE: PRT
ORGANISM: Artificial Sequence
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US-09-934-706-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURE:
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OTHER INFORMATION: Description of Artificial Sequence: Collagen-binding; OTHER INFORMATION: Basic Fibroblast Growth Factor US-10-344-634-14
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GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: Functional Hybrid Polypeptide with Collagen-binding
TITLE OF INVENTION: Activity
TITLE BEFERENCE: 19990120
CURRENT APPLICATION NUMBER: US/09/934,706
CURRENT FILING DATE: 2001-08-23
NUMBER OF SEQ ID NOS: 16
SEQ ID NO 5
LENGTH: 400
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LOCATION: (2)...(341)

LOCATION: (2)...(341)

NAME/KEY: PEPTIDE

LOCATION: (343)...(347)

COTER INFORMATION: /note="enterokinase recognition sequence"

NAME/KEY: PEPTIDE

LOCATION: (343)...(400)

LOCATION: (348)...(400)

COTER INFORMATION: /note="human epidermal growth factor"

US-09-934-706-5
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                                                                      APPLICANT: Ishlawa, Tetsuya
APPLICANT: Ishlawa, Tetsuya
APPLICANT: Kitajima, Takashi
TITLE OF INVENTION: Collagen-Binding Hybrid Polypeptide
TITLE OF INVENTION: Collagen-Binding Hybrid Polypeptide
FILE REPERENCE: 202650-132
CURRENT FILING DATE: 2003-06-18
CURRENT FILING DATE: 2001-08-15
PRIOR FILING DATE: 2000-08-15
PRIOR FILING DATE: 2000-08-15
NUMBER OF SEQ ID NOS: 16
SEQ ID NOS: 16
SEQ ID NO 14
LENGTH: 386
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Sequence 14, Application US/10344634
Publication No. US20040053368A1
GENERAL INFORMATION:
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Patent No. US20020102709A1
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FILING DATE:
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Sequence 1, Appli
Sequence 1, Appli
Patent No. 5455158
Patent No. 5455158
Sequence 12, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 2, Appli
Sequence 19, Appli
Sequence 19, Appli
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                                                                                                  (without alignments)
705.019 Million cell updates/sec
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Sequence 19, A
Sequence 19, A
Sequence 19, A
                                                                                    November 11, 2005, 08:22:00 ; Search time 2.11765 Seconds
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Sequence 2
Sequence 6
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           GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
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US-09-961-403-1
US-09-951-356-2
US-08-982-597A-19
US-09-136-218-19
US-09-521-220-19
US-09-391-104-20
US-09-949-016-6575
US-08-448-489-16
US-09-949-016-6575
US-09-949-016-6575
US-09-949-016-6575
US-09-949-016-0629
US-09-949-016-0629
US-09-949-016-10629
US-09-949-016-10629
US-09-949-016-10629
US-09-949-016-10629
US-09-949-016-10629
                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
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5455158-1
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                                                                                                                                                                                                                            513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                             - protein search, using sw model
                                                                                                                                                   110
1 TDHTVLVQTRGGNSNGALCH 20
                                                                                                                                                                                       BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                       Issued Patents AA:*
                                                                                                                                                                                                                                                                              Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                       US-09-581-651D-8
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Match Length DB
                                                                                                                                       Title:
Perfect score:
                                                                                                                                                                                        Scoring table:
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                                                                                      Run on:
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Sequence 14, Appl
Sequence 14, Appl
Sequence 14, Appl
Sequence 520, Ap
Sequence 7, Appl
Sequence 7, Appl
Sequence 15, Appl
Sequence 23, Appl
                  Sequence
Sequence
Sequence
Sequence
                                 US-09-270-767-49046
US-09-747-259-14
US-09-816-744-14
US-09-816-744-10
US-09-330-095-11
US-09-949-016-8335
US-09-949-016-8335
US-09-949-016-8335
US-09-949-016-8335
US-09-949-016-8335
US-09-949-016-8335
US-09-948-15
US-09-136-218-15
US-08-9136-218-15
US-08-9136-218-15
US-08-2136-218-15
US-08-2136-218-15
US-08-2136-218-15
US-08-2136-218-15
US-09-2170-279-33
```

### ALIGNMENTS

```
Sequence 16, Application US/08153799
; Patent No. 5766883
; GENERAL INFORMATION:
; APPLICANT: Ballance, David J
APPLICANT: Goodey, Andrew R
; TILE OF INVENTION: Polypeptides
; WUMBER OF SEQUENCES:
; ADDRESSEE: R Hain Swope, BOC Health Care Inc
; STREET: 100 Mountain Avenue
; CITY: Marray Hill
; STATE: New Jersey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153,799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08 07/847975
FILING DATE: 06-MAR-1992
PRIOR APPLICATION NUMBER: 08 990916.2
PRIOR APPLICATION NUMBER: 28-APR-1999
PRIOR APPLICATION NUMBER: 27-APR-1999
PRIOR APPLICATION NUMBER: 26-APR-1990
PRIOR APPLICATION NUMBER: 26-APR-1990
PRIOR APPLICATION NUMBER: 26-APR-1990
PRIOR APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
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APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
APPLICATION NUMBER: 28-APR-1990
APPLICATION NU
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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REGISTRATION NUMBER: 24864
REFERENCE/DOCKET NUMBER: 92H832
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 665 2400
TELEFRAX: (908) 771 6159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEFAX: (908) 771 6159
TELEX: 219404
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2211 amino acids
TYPE: amino acid
TOPOLOGY: linear
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371 TDHTVLVQTQGGNSNGALCH 390
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amino acid
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STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                COUNTRY: U
                                                                               PCT-US95-09819-1
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96.4%; Score 106; DB 1; Length 2324;
Best Local Similarity 95.0%; Pred. No. 1.1e-07;
Matches 19; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                             Query Match 96.4%; Score 106; DB 1; Length 2231; Best Local Similarity 95.0%; Pred. No. 1e-07; Matches 19; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
APPLICANT: GOLD, Leslie I.
APPLICANT: ROSLO, Leslie I.
APPLICANT: BARON, Martin
APPLICANT: CAMPBELL, Isin D.
APPLICANT: CAMPBELL, Isin D.
TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES,
TITLE OF INVENTION: CODING THEREFOR AND USERS THEREOF
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SCEWALING SILEM.
SCEWALING SILEM.
SCEWALING SILEM.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/283,857
FILING DATE: 01-AUG-1994
CLASSIFICATION 1435
PRIOR APPLICATION NUMBER: US 07/714,134
FILING DATE: 14-JUN-1991
ATTORNEY/AGBRT INPORMATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
                                                                                                 STREET: 419 Seventh Street, N.W., Suite 300 CITY: Washington STATE: D.C. COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GOLD=1A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                  371 TDHTVLVQTQGGNSNGALCH 390
                                                                                                                                                                                                                                                                            1 TDHTVLVQTRGGNSNGALCH 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BROWDY AND NEIMARK
                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1, Application US/08283857
Patent No. 5792742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: GOI
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGTH: 2324 amino acids
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
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Gaps
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GUY, RACHEL, PANET, AMOS

GUY, RACHEL, PANET, AMOS

TITLE OF INVENTION: FIBRIN BINDING DOMAIN POLYPEPTIDES AND

GUSES AND METHODS OF PRODUCING SAME

NUMBER OF SEQUENCES: 20

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/58,241

FILING DATE: 04-MAY-1993

PRICK APPLICATION NUMBER: 256,397

FILING DATE: 21-MAY-1990

FILING DATE: 21-MAY-1990

FILING DATE: 21-MS-1990

FILING DATE: 21-MS-1990

FILING DATE: 21-MS-1990

FILING DATE: 21-MS-1990

FILING DATE: 29-DEC-1989
                                                                                                                                                                      FIBRONECTIN FIBRIN-BINDING PEPTIDES, DNA CODING THEREFOR AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96.4%; Score 106; DB 5; Length 2324; 95.0%; Pred. No. 1.1e-07;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09819
                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ed. No. 1.1e
Mismatches
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/283,857
FILING DATE: 01-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, ROGET L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: GOLD=1A PC TELECOMMUNICATION INFORMATION:
TELEFROME: 202-628-5197
TELEFAX: 202-737-3528
TELEFAX: 202-737-3528
TELEFAX: 208-633
INFORMATION FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
***CATTANTON FOR SEO ID NO: 1:
SEQUENCE CHARACTERISTICS:
****CATTANTON FOR SEO ID NO: 1:
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****CATTANTON FOR SEO ID NO: 1:
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***CATTANTON FOR SEO ID NO:
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION:
CODING THEREFOR
TITLE OF INVENTION:
TITLE OF CONTROLLION:
CODING THEREFOR
CORRESPONDENCE ADDRESS:
ADDRESSEE:
BROWDY AND NEIMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             371 TDHTVLVQTQGGNSNGALCH 390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 TDHTVLVQTRGGNSNGALCH 20
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1 TDHTVLVQTRGGNSNGALCH 20

2002	
10:15:25	
14	
Nov	
Mon	

November 11, 2005, 07:55:44; Search time 7.39869 Seconds (without alignments) 1045.483 Million cell updates/sec GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd. - protein search, using sw model OM protein Run on:

110 1 TDHTVLVQTRGGNSNGALCH 20 US-09-581-651D-8 Title: Perfect score:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table: Sequence:

2105692 segs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 200000000 Minimum DB s Maximum DB s Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

geneseqp2000s:* geneseqp2001s:* geneseqp2002s:* geneseqp2003as:* geneseqp2003bs:* A_Geneseq_16Dec04:* L: geneseqp1980s:* 2: geneseqp1990s:* geneseqp20048:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

	noı	MSF 1-alp	MSF 1-alp	Human fib	Collagen-	Amino aci	Modified	Collagen-	Hybrid of	Human fib	Human fib	Hybrid of	Human myo	Human bla	Amino aci	Human fib	Human myo	Human mig	Chimeric	Human myo	Novel hum	Human min	Human sec	Human leu	Human pro	Human pro
	Description	Aay28913	Aay28905	Abb06747	Abb06751	Aab08505	Abb07961	Abb06750	Aab08509	Abb07964	Abb07965	Aab08508	Adq39403	Adr67316	Ads17489	Adr97658	Adq39409	Aay28901	Ad819044	Adq39406	Abg22275	Adp75952	Adp30365	Adp75957	Adr66462	Adr66120
	ID	AAY28913	AAY28905	ABB06747	ABB06751	AAB08505	ABB07961	ABB06750	AAB08509	ABB07964	ABB07965	AAB08508	ADQ39403	ADR67316	ADS17489	ADR97658	ADQ3 94 0 9	AAY28901	ADS19044	ADQ39406	ABG22275	ADP75952	ADP30365	ADP75957	ADR66462	ADR66120
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æ	Query Match	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Score	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
	Result No.	1	7	m	4	S	9	7	80	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Abo01289 Human pro Aam38647 Human pol Ada17498 Amino aci Adr9766 Bowino aci Adr9761 Bowino aci Adr39124 Human cel Add39112 Human myo Aae37107 Human fib Abr42588 Human fib Abr88646 Human fib Aam38649 Human pol Aam38649 Human pol Adg89560 Human fib Adg69560 Human fib Adg69560 Human fib Adg2668 Human col Adg39415 Proceen # Adg29668 Human col Adg39415 Human col Adg39415 Human myo	
ABOO1289 AAM8647 ADS1767 ABR40124 ADG39412 AAR38646 AAM38646 AAM38649	ADR67315 AAM38648
<b>Φ 4 20 20 40 40 44 40 7 20 20 20 20 20</b>	
20 20 20 20 20 20 20 20 20 20 20 20 20 2	2355
	100.0
	110
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## ALIGNMENTS

Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin. AAY28913 standard; peptide; 20 AA 98WO-GB003766 MSF 1-alpha peptide epitope. 21-SEP-1999 (first entry) Homo sapiens. 15-DEC-1998; WO9931233-A1 24-JUN-1999. Synthetic. AAY28913; AAY28913 

97GB-00026539 Schor AM; (UYDU-) UNIV DUNDEE. 16-DEC-1997; Schor SL,

Proteins with cell migration stimulatory activity used in treating wound and preventing scarring: WPI; 1999-430039/36.

Claim 29; Page 61; 86pp; English.

can The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. Sequences AAV28912-913 represent peptide epitopes of MSF against which monoclonal antibodies cabe raised

Sequence 20 AA;

ö Gape ö Query Match 100.0%; Score 110; DB 2; Length 20; Best Local Similarity 100.0%; Pred. No. 5.3e-11; Matches 20; Conservative 0; Mismatches 0; Indels

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epidermal growth factor; drug delivery system; tissue regeneration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200214505-A1
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Matches
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                                                                                                                                                                                                                                                                                                                             Proteins with cell migration stimulatory activity used in treating wound
                                                                                                                                                                                                                                                                                                                                                                      The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating call migration, healing a wound and for preventing scarring. Sequences AAY28902-906 represent peptide epitopes of MSF against which monoclonal antibodies that are specific to MSF and do not cross-react with fibronectin are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human, fibronectin; collagen-binding domain; collagen-binding hybrid;
basic fibroblast growth factor; enterokinase recognition site; collagen;
                                                                                                                                             Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human fibronectin collagen-binding domain protein SEQ ID NO:4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Score 110; DB 2;
; Pred. No. 5.6e-11;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABB06747 standard; protein; 228 AA
                                                                        21 AA
           TDHTVLVQTRGGNSNGALCH 20
                     Claim 18; Page 57; 86pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 TDHTVLVQTRGGNSNGALCH 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
100.0%;
                                                                                                                                                                                                                                      98WO-GB003766
                                                                                                                                                                                                                                                        97GB-00026539
                                                                       AAY28905 standard; peptide;
                                                                                                                             MSF 1-alpha peptide epitope
                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20, Conservative
                                                                                                                                                                                                                                                                                                                                      and preventing scarring.
                                                                                                                                                                                                                                                                                           Schor AM;
                                                                                                                                                                                                                                                                                                            WPI; 1999-430039/36.
                                                                                                                                                                                                                                                                        (UYDU-) UNIV DUNDEE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
Matches 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 AA;
                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                  WO9931233-A1
                                                                                                                                                                                                                                      15-DEC-1998;
                                                                                                                                                                                                                                                       16-DEC-1997;
                                                                                                           21-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-JUN-2002
                                                                                                                                                                                                                   24-JUN-1999
                                                                                                                                                                                                                                                                                           Schor SL,
                                                                                                                                                                        Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABB06747;
                                                                                        AAY28905;
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The present invention describes a hybrid polypeptide comprising a collagen-binding domain composed of an amino acid sequence ranging from Ala at position 260 to Arg at position 480 of human fibronectin or a similar amino acid sequence but with some amino acids deleted, similar amino acid sequence but with some amino acids deleted, substituted, inserted or added, and a functional polypeptide linked containing a functional polypeptide-modified collagen obtained by formulating a polypeptide originated from the hybrid polypeptide with collagen into a complex; (2) a gene encoding the hybrid polypeptide; and (3) a transformant containing the encoding the hybrid polypeptide; and (3) a transformant containing the gene. The hybrid polypeptide is useful in drug delivery system for functional polypeptides, formulating into complex with collagen to give functionally modified collagen matrix as blomaterial for tissue regeneration. The hybrid polypeptide has superior activity and stability in the body for a long period of time, with collagen the human fibronectin collagen-binding domain, which is used in an example from the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; fibronectin; collagen-binding domain; collagen-binding hybrid; basic fibroblast growth factor; enterokinase recognition site; collagen; epidermal growth factor; drug delivery system; tissue regeneration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Collagen-binding hybrid polypeptide, useful in drug delivery system for functional polypeptides, formulating into complex with collagen to give functionally modified collagen matrix as biomaterial for tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 228;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Page 61-63; 86pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ź
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   113 TDHTVLVQTRGGNSNGALCH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 TDHTVLVQTRGGNSNGALCH
                                                                                                                                                                                                       1.5-AUG-2001; 2001WO-JP007036.
                                                                                                                                                                                                                                                                         L5-AUG-2000; 2000JP-00246341
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                                                                                                                                                                                                                                                                                                                                                                                                                   Ishikawa T, Kitajima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2002-257605/30.
N-PSDB; ABL50261.
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nes 20; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 228 AA;
                                                                 WO200214505-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       regeneration.
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-JUN-2002
                                                                                                                                      21-FEB-2002
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OM protein

Run on:

Sequence:

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1 (bases 1 to 26)
Dias Neto, Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M. A., da Silva, W. Jr., Zago, M. A., Bordin, S., Costa, F. F., Brumstein, A. Garvalho, A.F., Matsukuma, A., Baria, G. S., Simpson, D.H., Brumstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
      EX.495600 DKRP2P779E
CN419466 170005319
BF986449 CV4-268012
CF793207 886238 MA
AJG8S866 AJG6S866
AJG6S866
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AJJ4089 AJJ40899
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CN419556 AJJ40556
CN419559 AJJ40556
CN419591 AJJ40556
CN419591 AJJ40556
CN419591 AJJ40556
CN419591 AJJ40556
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CN161842 950715 MA
AJJ4098 AJJ40981
AJJ4098 AJJ40556
CN161842 950715 MA
AJJ4008 AJJ4008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tel: +55-11-2704922
Fax: +55-11-2707001
Email: satupson@ludwig.org.br
This sequence wae from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BE699322 263 bp mRNA linear EST 12-SEP-200
RC3-NN0064-150600-022-all NN0064 Homo sapiens CDNA, mRNA sequence.
BE699322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ALIGNMENTS
                                                                                                    BG897886
CN481619
CN481217
CN481217
CN41925
CN41949
CN41949
CN419546
CN41950
CN41950
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CN41950
CN41940
CN419477
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AU140526
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CN419622
BQ574857
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AU140556
CN419594
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BQ340573
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Homo sapiens
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ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
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BE699322/c
LOCUS
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MEDLINE
PUBMED
COMMENT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
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                                                                                                                                                                                                                                                                                                                                                                                                                                           MODELaframe+_pin.model -DEV=x1h
-MODELaframe+_pin.model -DEV=x1h
-Q=/Gggl 1/USFYO spool h/USO9581651/runat 07112005 092223 28789/app_query.fasta_1.1834
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-PGAPEXT=7 -YGAPOP=10 -YGAPOP=0.5 -DELOP=6 -DELEXT=7
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AA375384 BST87654
AA376281 BST88736
AL589419 DKFZP451P
BE079849 RC6-BT062
BE122858 14 08 Hum
BX642740 DKFZp781G
AJ661698
BG007031 RC1-GN023
                                                                                     November 11, 2005, 08:46:42 ; Search time 415.948 Seconds (without alignments) 1830.243 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description
            GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                               34239544 seqs, 19032134700 residues
                                                                                                                                                                                                                                                                                                       hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                      Listing first 45 summaries
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AA375384
AA376281
AL589418
BE079849
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BX642740
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1 TDHTVLVQTRGGNSNGALCH 20
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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                                                                                                                                                                                                                                                                                                                                   seq length: 0
seq length: 200000000
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9b_htc::*;
9b_est4::*
9b_est4::*
9b_9s81::*
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373
385
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411
458
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Database

Minimum DB Maximum DB

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Total

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1. (bases 1 to 310)

Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult, C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White, O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Wai, C., Clayton, R.A., Cline, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D., Fitzgerald, L.M., Fitzthugh, W.H., Fritchman, J.L., Geoghagen, N.S., Kelley, J.M., Kelley, J.M., Kelley, J.C., Liu, L.-I., Marmaros, S.M., Merrick, J.B., Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M., Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R., Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Coleman, T.A., Collins, E.J., Li, W., Kozak, D.L., Kunsch, C., Hungjun, J., Lidher, D., Keng, D.-F., Hungjun, J., Lidh, Meisener, P.S., Olsen, H., Raymond, L., Wei, Y.F., Wing, J., Li, H., Meisener, P.S., Olsen, H., Fraser, C.M. and Venter, J.C.

Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of CDNA sequence
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/db_xref="txxon:9606"
/dev_sref="txxon:9606"
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/clone_lib="NN0064"
/note="Organ: nervous normal; Vector: pucl8; Site_l: Smal; Site_2: Smal; A mini-library was made by cloning products Site_2: Smal; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196, 716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=RC3-NN0064-150 600-022-all&t3=2000-06-15&t4=1) Seq primer: puc 18 forward High quality sequence stopp: 263.
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ESTB0654 HSC172 cells II Homo sapiens CDNA 5' end similar to
fibronectin, mRNA sequence.
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Contact: Kerlavage, AR
Bioinformatics
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Homo sapiens
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Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

CE (Dases 1 to 373)

RS Adams, M.D., Kerlavage, A.R., Fleischmann, R.D., Fuldner, R.A., Bult, C.J., Lee, N.H., Kirkness, E.F., Weinstock, K.G., Gocayne, J.D., White, O., Sutton, G., Blake, J.A., Brandon, R.C., Man-Wai, C., Clae, T.R., Cotton, M.D., Earle-Hughes, J., Fine, L.D., Fitzgerald, L.M., Fitzchman, J.L., Geoghagen, N.S., Glodek, A., Gnehm, C.L., Hanna, M.C., Hedblow, E., Hinkle, P.S., Jr., Kalley, J.M., Kelley, J.C., Liu, L.I., Marmaros, S.M., Merrick, J.M., Moreno-Palanques, R.F., McDonald, L.A., Nguyen, D.T., Pelligrino, S.M., Phillips, C.A., Ryder, S.E., Scott, J.L., Saudek, D.M., Shirley, R., Small, K.V., Spriggs, T.A., Utterback, T.R., Weidman, J.F., Li, Y., Bednarik, D.P., Cao, L., Cepeda, M.A., Fischer, C., Hastings, G.A., Los, M.D., Kunsch, C., Hungjun, J., Hudson, P., Kim, A.K., Kozak, D.L., Kunsch, C., Hungjun, J., Li, Meissner, P.S., Olsen, H., Raymond, L., Wei, Y.F., Ming, J., Xu, C., Yu, G.L., Ruben, S.M., Praser, C.M. and Venter, J.C., Thuseltine, W.A., Fields, C., Fraser, C.M. and Venter, J.C.

Initial assessment of human gene diversity and expression patterns based upon 83 million nucleotides of cDNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EST88736 HSC172 cells II Homo sapiens CDNA 5' end similar to fibronectin, mRNA sequence.
                                                                  Email: arkerlav@tigr.org
For clone availability, additional sequence and expression
information related to this EST, please check the TIGR Human Gene
Index (http://www.tigr.org/tdb/hgi/hgi.html)
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                                                                                                                                                              Seg primer: M13 Reverse.
Location/Qualifiers
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Contact: Kerlavage, AR
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Tel: 3018699056
Fax: 3018699423
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Mon Nov 14 10:15:24 2005
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                Copyright
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- nucleic search, using frame_plus_p2n model
 OM protein
                                   Run on:
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November 11, 2005, 15:20:41; Search time 102.693 Seconds (without alignments) 1610.594 Million cell updates/sec

110 1 TDHTVLVQTRGGNSNGALCH 20 Xgapop 10.0 , Xgapext Ygapop 10.0 , Ygapext Fgapop 6.0 , Fgapext Delop 6.0 , Delext US-09-581-651D-8 **BLOSUM62** Title: Perfect score: Scoring table: Sequence:

9794790 seqs, 4134909567 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Command line parameters:

-MODEL=frame+_p2n.model -DEV=x1h
-Q=Cgn2_1/USPTO_spool_h/US09581651/runat_07112005_09226_28867/app_query.fasta_1.1834
-Q=Cgn2_1/USPTO_spool_h/US09581651/runat_07112005_09226_28867/app_query.fasta_1.1834
-USOPCL=0 -MUNAPCH=0.1
-LOODEL=0 -LOODEXT=0 -UNITS=blts -START=1 -END=-1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pto -NORM=ext -HEAPSTZE=500 -MINLEN=0
-MAXTEN=2000000000 -USER=US09581651 @CGN 1 1.1041 @runat_07112005_09226_28867
-NCPU=6 -ICPU=3 -NO_MMAP -LARGEQUERY NEG SCORES=0 -WAIT -DSPBIOCK=100
-LONGLGG -DEV TIMBOUT=120 -WARN TIMBOUT=30 -THREADS=1 -XGAPDP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Published_Applications_NA:* Database :

"Cgn2_6/ptodata1/pubpna/USO7_PUBCOMB.seq:*
'Cgn2_6/ptodata1/pubpna/USO6_PUBCOMB.seq:*
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'Cgn2_6/ptodata1/pubpna/USO9_REW_PUB.seq:*
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ptodata/1/pubpna/US11A PUBCOMB.8eq:* /cgn2_6/ptodata/1/pubpna/US11 NEW PUB. seq:* /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB. seq:* /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB. seq:* 20::02

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

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# ALIGNMENTS

APPLICANT: Searle/Monsanto
APPLICANT: Phippard, Deborah
APPLICANT: Phippard, Deborah
APPLICANT: Vasanthakmur, Geetha
APPLICANT: Vasanthakmur, Geetha
APPLICANT: Ma, Xiao-Jun
TITLE OF INVENTION: Osteoarthritis tissue-derived nucleic acids, polypeptides,
TITLE OF INVENTION: vectors, and cells
FILE REPERENCE: SO-3221 PR
CURRENT APPLICATION NUMBER: US/09/765,231A ; Sequence 1, Application US/09765231A ; Patent No. US20020119452A1 GENERAL INFORMATION US-09-765-231A-1

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US-09-581-651D-8 (1-20) x US-10-344-634-3 (1-708)
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                                                                                                                                                                                                                                                                                  1 ThrAspHisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGlyAlaLeuCysHis 20
                                                                                                                                                                                                                                                                                                    PEATURE: OTHER INFORMATION: Description of Artificial Sequence: Human Fibronectin OTHER INFORMATION: Collagen-binding Domain
                                                                                                                                                                                                                                                                                                                                                      WESULO.

US-10-344-634-3

Sequence 3, Application US/10344634

Sequence 3, Application US/10344634

Sequence 3, Application US/10344634

SEDERAL INFORMATION:

APPLICANT: Ishikawa, Tetsuya

APPLICANT: Kitajina, Takashi

TITLE OF INVENTION: Collagen-Binding Hybrid Polypeptide

FILE REPERENCE: 029650-132

CURRENT FILING DATE: 2003-66-18

PRIOR APPLICATION NUMBER: PCT/JP01/07036

PRIOR FILING DATE: 2001-08-15

PRIOR FILING DATE: 2000-08-15

NUMBER OF SEO ID NOS: 16

SOUTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 3

LENGTH: 708
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; CURRENT FILING DATE: 2001-01-18; NUMBER OF SEQ ID NOS: 82; SEQ ID NO 1; LENGTH: 310; TYPE: DRA; ORGANIEN: HOMO GADIENS
US-09-765-231A-1
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ORGANISM: Artificial Sequence
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NAME/KRY: CDS
LOCATION: (16)..(693)
FRATURE:
NAME/KRY: conflict
LOCATION: (109)
PRATURE:
NAME/KRY: conflict
LOCATION: (206)
PEATURE:
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LOCATION: (270)
FEATURE:
NAME/KEY: conflict
LOCATION: (374)
FEATURE:
LOCATION: (374)
NAME/KEY: conflict
LOCATION: (681)
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1 US-10-198-846-8918

1 Sequence 8918, Application US/10198846

1 Publication No. US20030099974A1

1 GENERAL INPORMATION:

1 APPLICANT: Lillie, James

2 APPLICANT: Aun Youzhen

3 APPLICANT: Wangy Youzhen

3 APPLICANT: Wangy Youzhen

4 APPLICANT: Wangy Youzhen

5 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS

7 TITLE OF INVENTION: PORE IDENTIFICATION, ASSESSMENT, PREVENTION, AND

7 TITLE OF INVENTION: THERAPY OF BREAST CANCER

7 TITLE OF INVENTION: THERAPY OF BREAST CANCER

7 TITLE OF ILLING DATE: 2002-07-18

7 CURRENT APPLICATION NUMBER: 60/306,220

7 FRICR FILING DATE: 2001-07-18

7 NUMBER OF SEQ ID NOS: 14084

7 SOFTWARE: FASELSEQ for Windows Version 4.0

7 SEQ ID NO 8918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PEATURE: OTHER INFORMATION: Description of Artificial Sequence: Collagen-binding
1 ThrAspHisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGlyAlaLeuCysHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 ThraspHisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGlyAlaLeuCysHis
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Sequence 15, Application US/10344634

Publication No. US20040053368A1

Publication No. US20040053368A1

SENERAL INFORMATION:
TOTUS OF INTERIOR TAKASHA

TITLE OF INVENTION: Collagen Binding Hybrid Polypeptide
FILE REFERENCE: 029650-132

CURRENT APPLICATION NUMBER: US/10/344,634

CURRENT FILING DATE: 2003-06-18

PRIOR APPLICATION NUMBER: DT/JP01/07036

PRIOR PILING DATE: 2000-08-15

PRIOR PILING DATE: 2000-08-15

NUMBER OF SEQ ID NOS: 16

SEQ ID NO SEQ ID NOS: 16

SEQ ID NO 15-00-09-15
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Matches:
Conservative:
Mismatches:
Indels:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURE:

NAME/KEY: misc_feature

LOCATION: 1, 3, 5, 6, 7, 12, 716

OTHER INFORMATION: n = A,T,C or G
US-10-198-846-8918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Artificial Sequence
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110.00
100.00%
100.00%
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity:
Query Match:
DB:
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Sequence 345, App
Sequence 33, Appl
Sequence 33, Appl
Sequence 34, Appl
Sequence 346, App
Sequence 704, App
Sequence 704, App
Sequence 5, Appli
Sequence 12927, A
Sequence 12927, A
Sequence 12927, A
Sequence 1755, App
Sequence 175, Appli
Sequence 12, Appli
Sequence 22, Appli
Sequence 22, Appli
Sequence 22, Appli
Sequence 22, Appli
Sequence 2209, A
Sequence 22203, A
Sequence 22203, A
Sequence 6218, A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 135, Application US/09566921

Patent No. 668288

GENERAL INFORMATION:
APPLICANT: Tingley, Debora W.
APPLICANT: Tingley, Debora W.
TITLE OF INVENTION:
FILE REFERENCE: PA-0024 US
CURRENT FAPLICATION NUMBER: US/09/566,921
CURRENT FILING DATE: 2000-05-05
NUMBER OF SEQ ID NOS: 138
SOFTWARE: PERL Program
SOFTWARE: PERL Program
LENGTH: 8044
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; OTHER INFORMATION: Incyte ID No. 6682888 427813.14
US-09-566-921-135
US-09-799-451-345
US-08-457-304A-33
US-08-684-932A-33
US-08-684-932A-33
US-09-949-016-704
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US-09-949-016-12311
US-09-949-016-1376-1311
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US-09-270-767-6921
US-09-270-767-62203
US-09-949-016-32909
US-09-949-016-67287
US-09-949-016-67288
US-09-949-016-67288
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Matches:
Conservative:
Mismatches:
Indels:
Gaps:
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US-09-103-840A-1
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ORGANISM: Homo sapiens
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Best Local Similarity: 1
Query Match: 1
DB:
                                                       Alignment Scores:
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Sequence 1289, Appl
Sequence 1289, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 1, Appli
Sequence 1, Appli
Sequence 8, Appli
Sequence 8, Appli
                                                                                                                          November 11, 2005, 08:49:16; Search time 20.1307 Seconds (without alignments) 1625.652 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lssued_Patents_Na:*
1: /cgn2_6/ptodata/1/ina/SA_COMB.seq:*
    /cgn2_6/ptodata/1/ina/SB_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PcTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*
                      GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
                                                                                         - nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-566-921-135
US-09-220-132-38
US-09-023-655-1289
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US-08-259-169-16
US-08-826-885-16
5455158-2
5455158-2
US-08-551-356-1
US-07-637-250A-8
US-07-637-250A-8
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                    US-09-581-651D-8
110
1 TDHTVLVQTRGGNSNGALCH 20
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Maximum DB seq length: 200000000
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RESULT 4
PCT-US95-09819-6
Sequence 6, Application PC/TUS9509819
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: CODING THEREFOR AND USES THEREOF
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
TTP: 20004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY: C.C.

ZIP: 20004

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPOTTER: IBM PC Compatible

COMPOTTER: IBM PC COMPATIBLE

CORRENT OF SYTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/09819

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/283,857

FILING DATE: 01-AUG-1994

ATTORNEY/AGENT TRPORMATION:

NAME: BROWDY, ROGET L.

REGISTRATION NUMBER: GOLD=1A PCT

TELECOMMUNICATION INFORMATION:

TELECOMMUNICATION INFOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7680
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Conservative:
Mismatches:
Indels:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
TELECOMMUNICATION INFORMATION:
TELEPHANE: (650) 845-0155
TELEPAX: (650) 845-4166
INFORMATION FOR SEG ID NO: 1289:
SEQUENCE CHARACTERISTICS:
LENGTH: 7680 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4.14e-08
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100.00%
95.00%
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IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: 931396
US-09-023-655-1289
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Best Local Similarity:
Query Match:
DB:
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Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                                    Sequence 38, Application US/09220132

Sequence 38, Application US/09220132

Patent No. 6506607

GENERAL INFORMATION:

TITLE OF INVENTION: METHODS AND COMPOSITONS FOR THE IDENTIFICATION AND ASSESSMENT

TITLE OF INVENTION: OF PROSTATE CANCER THERAPIES AND THE DIAGNOSIS OF PROSTATE CANCER

FILE REFERENCE: 07334-074001

CURRENT PILING DATE: 1998-12-23

PRIOR FILING DATE: 1998-12-23

PRIOR FILING DATE: 1998-03-25

PRIOR FILING DATE: 1998-03-25

NUMBER OF SEQ ID NOS: 191

SOFTHARE FILING DATE: 1997-12-24

NUMBER OF SEQ ID NOS: 191

SEQ ID NO 38

LENGTH: 7679
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 ThrAspHisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGlyAlaLeuCysHis 20
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APPLICANT: Cocke, Benjamin G.

APPLICANT: Susan G. Stuart

APPLICANT: Susan G. Stuart

APPLICANT: Susan G. Stuart

APPLICANT: Standamer

TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE

TITLE OF INVENTION: EXPRESSION

NUMBER OF SEQUENCES: 1508

CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

CONNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZDP: 04304

ZDP: 04304

COMPUTER READABLE FORM:
MEDIUM TYPE: Flopyy disk
COMPUTER: BN PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURENT APPLICATION NUMBER: US/09/023,655
FILLING DATE: HEREWITH
CLASSIFICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-581-651D-8 (1-20) x US-09-220-132-38 (1-7679)
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CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 31,071
REFERENCE/DOCKET NUMBER: PA-0001 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1289, Application US/09023655
Patent No. 6607879
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106.00
100.00$
95.00$
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Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 3
US-09-023-655-1289
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Pred. No.:
                                                                        US-09-220-132-38
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Ade 1748 Nucleotid Adress Human fib Adx81299 Human mig Adx81299 Human mig Adx87201 Human bla Adq3851 Human SNP Adq3851 Human SNP Ady3859 Human nin Adp2913 Human sec Ady3859 Human nin Ady38595 Human nin Adx87443 Human pro Adx66537 Human pro Adx66537 Human pro Adx665170 Human pro Adx665170 Human col Ady3858 Human col Adx87820 Tumour-as Ady38582 Human SNP Adq3858 Human SNP Adq8858 Human SNP
                               Aaa64263 cDNA enco
Ab141020 Modiffed
Ab150268 COllagen-
Acn90406 Breat ca
Aaa64271 Fibronect
Ab141027 Human fib
Ab41028 Human fib
Aaa64270 Fibronect
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Adq38577 Human SNP
Adq38586 Human SNP
Adq38579 Human SNP
Adp89565 Human fib
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Osteoarthritis; infectious disorder; Crohn's disease; sepsis; human; wound healing; osteopathic; anti-arthritic, anti-inflammatory; vulnerary; antibacterial; antiallergic; ds.
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Add64998 Human f
Add89565 Human f
Add29601 Human c
Adr67200 Human b
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ADD14477
AAX81299
ADX87201
ADX8555
ADQ38581
ADX86462
ADP75954
ADP75958
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ADQ38586
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ADP64998
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ABL41027
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AAA64270
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-JAN-2001; 2001WO-US000016.
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                                                                                                                                         November 11, 2005, 08:30:56 ; Search time 65.5686 Seconds (without alignments) 1805.663 Million cell updates/sec
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                  GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                     nucleic search, using frame_plus_p2n model
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
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Sequences AAH23071-23152 represent nucleic acid sequences derived from osteoarthritis tissues. The sequences are useful as probes and for the diagnosis or prognosis of mammalian osteoarthritis. The polynucleotides and polypeptides of the invention are useful for generating diagnostic reagents, as targets for small molecule drug development, generation of therapeutics, and cloning genes. Specific antibodies are used to generate enzyme linked immunosorbent assays for detection of osteoarthritis. The invented molecules can be used to treat osteoarthritis or to analyse the disease-modifying activity of osteoarthritis drug activity of osteoarthritis drug activity of osteoarthritis drug activity of osteoarthritis drug activity of sequences include atopic, inflammatory and infectious disorders e.g. Crohn's disease and sepsis, and wound
                             S
                       Substantially purified protein, polypeptide or their fragments, used identify a biologically active compound or composition and treat
                                                                                                                                      Claim 1; Page 90; 144pp; English
                                                                                    mammalian osteoarthritis.
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Sequence 310 BP; 87 A; 75 C; 77 G; 71 T; 0 U; 0 Other;

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310
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       Length:
Matches:
Conservative:
Mismatches:
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      1.68e-09
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                     Percent Similarity:
Best Local Similarity:
Query Match:
Alignment Scores:
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US-09-581-651D-8 (1-20) x AAH23071 (1-310)

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20
                                          19 ACAGACCACACTGTTTTGGTTCAGACTCGAGGAGGAAATTCCAATGGTGCCTTGTGCCAC 78
1 ThrasphisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGlyAlaLeuCysHis
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Human fibronectin collagen binding domain DNA SegID 2.
      ВЪ
      ADS19041 standard; DNA; 706
                   (first entry)
                   16-DEC-2004
             ADS19041;
RESULT 2
   ADS19041
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human, ds, hepatocyte growth factor; HGF; collagen binding domain; fibronectin; artificial blood vessel; stent; tissue regeneration;

vulnerary.

Homo sapiens

JP2004269423-A.

07-MAR-2003; 2003JP-00062169 30-SEP-2004

07-MAR-2003; 2003JP-00062169

(TERU ) TERUMO CORP

WPI; 2004-682709/67.

other Hepatocyte growth factor HGP derivative for inducing angiogenesis, comprises fusion protein containing HGP polypeptide and polypeptide (than HGF, and polypeptide having collagen binding property connected directly or through intron.

Example 1; SEQ ID NO 2; 51pp; Japanese.

This invention relates to a novel hepatocyte growth factor (HGF) derivative. Specifically, it refers to a fusion protein containing an HGF

Example 1; Page 59-61; 86pp; Japanese

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349 ACAGACCACACTGTTTTGGTTCAGACTCGAGGAGGAAATTCCAATGGTGCCTTGTGCCAC 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human, fibronectin, collagen-binding domain, collagen-binding hybrid, basic fibroblast growth factor; enterokinase recognition site, collagen, epidermal growth factor; drug delivery system; tissue regeneration; gene;
polypeptide and the collagen binding domain of fibronectin, where the collagen binding property and the HGF activity are maintained. The present invention describes this HGF derivative as a live organ transplant material that can be an artificial blood vessel or a stent in moding. Accordingly, it is useful for inducing and enhancing anglogenesis (compared to matural type HGF) in damaged tissue and thus can enhance tissue regeneration. Furthermore, it exhibits vulnerary activity with increased stability and collagen binding properties. This polymucleotide sequence is the DNA encoding the human fibronectin collagen binding domain from Ala260 to Ala484, given in an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Collagen-binding hybrid polypeptide, useful in drug delivery system for functional polypeptides, formulating into complex with collagen to give functionally modified collagen matrix as biomaterial for tissue
                                                                                                                                                                                                                                                                                                                                                                                                 ThraspHisThrValLeuValGInThrargGlyGlyAsnSerAsnGlyAlaLeuCy8His
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human fibronectin collagen-binding domain encoding cDNA SEQ ID NO:3.
                                                                                                                                                                                                            Sequence 706 BP; 187 A; 181 C; 187 G; 151 T; 0 U; 0 Other;
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Matches:
Conservative:
Mismatches:
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                                                                                                                                                                              exemplification of the invention.
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Best Local Similarity:
Query Match:
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AJ276395 Homo sapi
AJ276395 Homo sapi
AJ535086 Homo sapi
CQ731571 Sequence
BX638045 Homo sapi
CQ715726 Sequence
BX640999 Homo sapi
BX640999 Homo sapi
AL832771 Homo sapi
BX640802 Homo sapi
BX640802 Homo sapi
BX649182 Homo sapi
BX649182 Homo sapi
BX638018 Homo sapi
BX538018 Homo sapi
BX640731 Homo sapi
BX64081112 Sequence
BX538018 Homo sapi
BX64081112 Sequence
BX8317590 Homo sapi
BX640811 Homo sapi
BX64081 Homo sapi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Phippard, D., Vasanthakamur, G., Dotson, S. and Ma, X.J.
Osteoarthritis tissue derived nucleic acids, polypeptides, vectors, and cells
Patent: WO 0153531-A 1 26-JUL-2001;
Pharmacia Corporation (US)
Location/Qualifiers
BD142785 Collagen-
BD133458 (Collagen-
BD13469 Hybrid po
E63263 Collagen-bi
BD13476 (Collagen-bi
BD133466 (Collagen-bi
BD133466 (Collagen-bi
BD133466 (Collagen-bi
BD133466 (Collagen-bi
BD133477 Hybrid po
CQ871828 Sequence
CQ871828 Sequence
AJ276395 Homo sapi
CQ875358 Sequence
CQ871571 Sequence
CQ871571 Sequence
CQ771571 Sequence
BX538045 Homo sapi
CQ715726 Sequence
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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AX202071
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HSM804082
HSM803509
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HSM806653
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CQ875357
HSM806170
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HSM806903
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HSM806214
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AUTHORS
TITLE
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    ORIGIN
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-WODEL=frame+_p2n.model -DEV=xlh
-Qe/cgn2_1/USPFO spool h/USO9891651/runat_07112005_092223_28778/app_query.fasta_1.1834
-DE-GenEmbl -OFWT=fastap -SUFFIX=p2n.rge -MINNATCH=0.1 -LGOPCL=0 -LGOPEXT=0
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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AF312399 Homo sapi
BD142777 Collagen-
CQ427970 Sequence
                                                                                 November 11, 2005, 08:45:16; Search time 535.477 Seconds (without alignments) 1809.796 Million cell updates/sec
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               GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
                                                            - nucleic search, using frame_plus_p2n model
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1 TDHTVLVQTRGGNSNGALCH 20
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Ygapop 10.0, Ygapext
Fgapop 6.0, Fgapext
Delop 6.0, Delext
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Steffensen, B. and Martin, P.A.
Fibronectin collagen binding domain (modules 16, III, II2, I7)
Unpublished
J (bases 1 to 615)
Steffensen, B. and Martin, P.A.
Direct Submission
Submitted (10-OCT-2000) Periodontics, University of Texas Health
Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio,
TX 78229-3900, USA
Location/Qualifiers
                                                                                                                                                                                        20
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Kornblihtt, A.W., Umezawa, K., Vibe-Pedersen, K. and Baralle, F.E. Primary structure of human fibronectin: differential splicing may generate at least 10 polypeptides from a single gene BMBO J. 4 (7), 1755-1759 (1985)
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/note="spans modules I6, II1, II2, and I7; collagen
binding domain"
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Homo sapiens fibronectin mRNA, partial cds.
AF312399
            Mismatches:
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213
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10N Collagen-binding hybrid polypeptide.

Collagen-binding hybrid polypeptide.

BD142777.

BD142777.1 GI:23237722

S WO 0214505-A/3.

COLLagen-binding hybrid polypeptide
other sequences, artificial sequences.

CE I (bases 1 to 708)

RS Ishikawa, T. and Kitajima, T.

COLLagen-binding hybrid polypeptide
AL TERUNO CORP, TETSUYA ISHIKAWA, TAKASHI KITAJIMA

OS Artificial Sequence
PP 15-AUG-2001 WO 2001UP007036

PP 15-AUG-2000 UP 00P 246341

PI TETSUYA ISHIKAWA, TAKASHI KITAJIMA

CC CLANIS/09.COTKL9/00.COTKL9/00.COTKL9/00.CI2N1/21,CI2NS/10,A6IK38/00 CC

Description of Artificial Sequence: Human

CC Domain

CC Domain

CC Domain

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FT CONFlict

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FT CONFLICT PAT 28-JAN-2004 PAT 18-SEP-2002 linear 000000 615 20 0 0 0 Length:
Matches:
Conservative:
Mismatches:
Indels: Length: Matches: Conservative: Mismatches: Indels: 1. .708 /organise="synthetic construct" /mol_type="genomic DNA" /db_xref="taxon:32630" CQ427970 741 bp DNA Sequence 13004 from Patent WO0151628. CQ427970 Gaps: US-09-581-651D-8 (1-20) x AF312399 (1-615) US-09-581-651D-8 (1-20) x BD142777 (1-708) Location/Qualifiers 3.02e-08 110.00 100.00% 100.00% 2.66e-08 110.00 100.00% 100.00% LOCUS DEFINITION ACCESSION

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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
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QGN025
FINC MOUSE
QGMZÜS
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Q9GLE5
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Q9PF33
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Q9WTLE
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FINC RAT
MM09 BOVIN
Q9N282
MM09 CANFA
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Gapop 10.0 , Gapext 0.5
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1: uniprot_sprot:*
2: uniprot_trembl:*
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bos taurus
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tupaia glis
equus cabal
canis famil
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            ovis aries
homo sapien
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TISSUERNCE FROM N.A.

TISSUE-Human colon endothel primary cell culture;

TISSUE-Human colon endothel primary cell culture;

Bloecker H., Boecher M., Mewes H.W., Well B., Amid C., Osanger A.,

Bloecker H., Boecher M., Miemann S.,

L. Submitted (JUN-2003) to the 'HW., Well B., Amid C., Osanger A.,

EMBL, BK538045, CAD97984.1; -.

EMBL, BK538045, CAD97984.1; -.

R HSSP, Q96KP7; IFBR.

R OS.0005576; C:extracellular, IEA.

InterPro; IPR000629; EGF_like.

InterPro; IPR000652; FN_TYPe_II.

P Fam; PF000039; FN_TYPe_II.

R PF0000; FN_TYPe_II. 2.

SMART; SM00059; FNL; 9.
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05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKPZp686K139 (Hypothetical protein DKFZp686F219)
(Fragment).
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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095m18
095g14
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PROSITE; PS01253; FIBRONECTIN 1; 9.
PROSITE; PS00123; FIBRONECTIN 2; 2.
HYDCHELICAL Drotein.
SEQUENCE 749 AA; 83524 MW; C8DDF97F3ED2F0DE CRC64;
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01-0cT-2003 (TrEMBLrel. 25, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Hypothettal protein DKFZp686B18150.
Name=DKFZp686B18150,
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Pred. No. 3.1e-06;
0; Mismatches 2;
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        09BGL4
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013018
095MJ3
095LC7
095LC7
095MJ0
095MJ0
095MJ0
095MJ0
                                                                                                                                                                                                                      PRT;
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Best Local Similarity 55.3%;
Matches 21; Conservative 0
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 2420
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2440
224430
224433
243483
3858
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3858
 RESULT 1
Q7Z391
ID Q7Z391
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us-09-581-651d-7.rup

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REPUBLICE FROM N.A.

TISSUE-Amygdala;

RC TISSUE-Amygdala;

RC THE German CDRA COMBORTIUM;

CALCHAWAGIGLE B., Obermaier B., Deutschenbaur S., Schaipp A.,

RA Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M., Wiemann S.;

REL; CR749317; CAH18172.1; -

RIGERPO; IPRO0039; FINITI subd.

RIGERPO; IPRO00396; FN III subd.

RIGERPO; IPRO00396; FN III subd.

RIGERPO; IPRO0039; FN III subd.

RIGERPO; IPRO0039; FN III subd.

RIGERPO; IPRO0039; FN III subd.

REPERO; PRO0011; FN III subd.

REPERO; PRO0014; FN III subd.

REPERO; REPERO; REPERONOSE; FN III Subd.

REPERO; REPEROSE; FN III Subd.

REPERO; REPEROSE; FN III Subd.

REPERO; REPEROSE; FN III Subd.

REPEROSE; FN III SUBD.

REPEROSE; REPEROSE; FN III SUBD.

REPEROSE; REPEROSE; FN III SUBD.

REPEROSE; REPEROSE; FN III SUBD.

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REPUBLIE; PROSOCS; FN III SUBD.

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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    / Match 74.0%; Score 95.5; DB 2; Length 2193; Local Similarity 55.3%; Pred. No. 1.1e-05; nes 21; Conservative 0; Mismatches 2; Indels 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NON TER 1 1 SEQUENCE 2193 AA; 240641 MW; F876E93106540EF3 CRC64;
                          InterPro; IPR000562; FN_Type_II.
Pfam; PF00039; fn1; 7.
Pfam; PF00040; fn2; 2.
Pfam; PF00041; fn3; 17.
PRINTS; PR00041; Fn3; 17.
PRINTS; PR00012; FNTYPEII.
PRINTS; PR00013; FNTYPEII.
PRODO; PR00059; FN TyPe_II.
PRODO; PR00059; FN TyPe_II.
SWART; SM00059; FN TyPe_II; 2.
SWART; SM00059; FN3; 17.
PROSITE; PS00687; ALDEHYDE_DEHYDR_GLU; UNKNOWN_I.
PROSITE; PS01253; FTBRONECTIN 1; 7.
PROSITE; PS00023; FIBRONECTIN 1; 7.
PROSITE; PS00023; FIBRONECTIN 1; 7.
PROSITE; PS00023; FIBRONECTIN 2; 2.
PROSITE; PS00023; FIBRONECTIN 2; 2.
PROSITE; PS00023; FIBRONECTIN 2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       106 PCVLPFTYNGRTFYSCTTEGRQDGHLWCSTTSNYEQDQ 143
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25-0cr-2004 (TrEMBLrel. 28, Last sequence update)
25-0cr-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein DKFZp686H0342.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 PCVLPFTYNDRT------DSTTSNYEQDQ 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT; 2240 AA.
InterPro; IPR008957; FN_III-like.
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                                                                                                                                                                                                                                                                                                                  A Ansorge W., Kieger S., Regiert T., Rittmueller C., Schwager B., Ansorge W., Kieger S., Regiert T., Rittmueller C., Schwager B., Submitted (Aug-2003) to the EMBL/GenBank/DDBJ databases.

REMBL: Bx649182; CAE45800.1; -.

REMBL: Bx649182; CAE45800.1; -.

GO; GO:005756; C:extracellular; IEA.

InterPro; IPR000591; Fibrnctn1.

RITERPRO; RR000391; Fibrnctn1.

REMBL: Bx60012; Fibrnctn1.

REMBL: RY00012; Fibrnctn1.

REMBL: RY00013; Fill; 9.

Rem; PR00013; Fill; 9.

REMRT; SM00059; FN1; 9.

RODOM; PR000595; FN1; 9.

RODOM; PR000595; FN1; 9.

RODOM; PR000595; FN1; 9.

ROSORTE; RW00059; FN1; 9.

ROSITE; PS00022; FGF 1; UNKNOWN 1.

RROSITE; PS00023; FIBRONECTIN 1; 9.

RROSITE; PS00023; FIBRONECTIN 2; 2.
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TISSUE=Human uterus endothel primary cell culture;
THe German Human cDNA Consortium;
The German Human cDNA Consortium;
Than M., Wiemann S.;
Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; BX640999; CAR46002.1; -..
GO; GO:0005576; C:extracellular; IEA.
InterPro; IPR002086; Aldehyd_dehydrog.
InterPro; IPR003081; Fibrinctn1.
InterPro; IPR003083; Fibrinctn1.
InterPro; IPR003961; FullI.
InterPro; IPR003961; FullI.
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O5-JUL-2004 (TrEMBLrel. 27, Created)
O5-JUL-2004 (TrEMBLrel. 27, Last sequence update)
O5-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686012165 (Fragment).
Name-DKFZp686012165;
Homo sapiens (Human).
Eukaryota, Merazoa; Chordata, Craniata, Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                             Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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SEQUENCE 1103 AA; 122113 MW; 82FEC4CAF634AD56 CRC64;
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   Name=DKFZp686K139; Synonyms=DKFZp686F219;
                                                                                                                                                                                                                  SEQUENCE FROM N.A.
TISSUE-Human cervix;
The German Human cDNA Consortium;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
                                              Homo sapiens (Human).
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Q6MZM7
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Gaps

15;

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein November 11, 2005, 08:12:29; Search time 1.74379 Seconds (without alignments) 1269.066 Million cell updates/sec Run on:

Title: Perfect score:

US-09-581-651D-7 129 1 PCVLPFTYNDRTDSTTSNYEQDQ 23 Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

Searched:

283416 seqs, 96216763 residues

283416

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

PIR_79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		d			SUMMARIES	
Result No.	Score	Query Match	Guery Match Length	DB	QI .	Description
	95.5	74.0	2386	-	FNHU	fibronectin precur
7	92.5	71.7	2265	Н	FNBO	•
٣	88.5	9.89	2477	N	S14428	fibronectin precur
4	71.5	55.4	712	Н	146031	Ф
ß	61.5	47.7	730	Н	152580	ш
9	61.5	47.7	730	~	JC1456	m
7	61.5	47.7	2481	7	A43908	
80	60.5	46.9	1463	7	A53210	phospholipase A2 r
6	59.5	46.1	1326	7	B56395	secretory phosphol
10	59.5	46.1	1458	-	A49707	phospholipase A2 r
11	59.5	46.1	1465	~	A56395	secretory phosphol
12	58.5	45.3	708	~	JC4364	gelatinase B (EC 3
13	58.5	45.3	708	7	S62907	gelatinase B (EC 3
14	58.5	45.3	2499	7	A30788	Shock
15	56.5	43.8	099	-	A28153	gelatinase A (EC 3
16	55.5	43.0	662	~	A42496	gelatinase A (EC 3
17	55.5	43.0	662	~	S34780	ď
18	55.5	43.0	2491	н	A28372	insulin-like growt
19	54.5	42.2	603	7	S28941	-
20	52.5	40.7	662	7	870365	Ø
21	52.5	40.7	707	Н	A53796	gelatinase B (EC 3
22	52.5	40.7	2482	~	148922	cation-independent
23	52.5	40.7	2483	-	A49617	insulin-like growt
24	50.5	39.1	1487	~	S48719	phospholipase-A(2)
25	20	38.8	456	~	845137	ກຸ
26	49.5	38.4	707	٦	A34458	gelatinase B (EC 3
27	49	38.0	326	~	A47523	
28	4	38.0	2242	N	A57541	pyrimidine synthes
29	48.5	37.6	593	N	S45281	

transcription regu	. hepatocyte growth	probable dimethyl	hemocytin - silkwo	coagulation factor	mannose receptor,	hypothetical prote	C-8 sterol isomera	seminal fluid prot	flagellar M-ring p	hypothetical prote	hypothetical prote	ADA3-like protein	hypothetical prote		zonadhesin - mouse
C86679	A46688	AE0680	S52093	KFHU12	T42710	T18691	JH0488	A29156	F83508	A84463	T33711	T40053	H71607	T40690	T42215
N	Н	N	7	Н	N	N	N	N	N	~	N	~	N	~	~
461	655	812	3133	615	1479	166	222	115	598	124	325	551	764	884	5376
37.2	37.2	37.2	37.2	36.8	36.8	36.4	36.4	36.0	36.0	35.7	35.7	35.7	35.7	35.7	35.7
48	48	48	48	47.5	47.5	47	47	46.5	46.5	46	46	46	46	46	46
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

#### ALIGNMENTS

RESULT 1 FINIU
fibronectin precursor [validated] - human
N;Alternate names: fibronectin splice form ED-A
C; Species: Homo sapiens (man)
C;Date: 27-Nov-1985 #sequence revision 31-Mar-1993 #text change 09-Jul-2004
C;Accession: A26460; A26284; S03917; A24854; A24476; A91008; A93529; A21011; A90495; A22
R; Dean, D.C.; Bowlus, C.L.; Bourgeois, S.
Proc. Natl. Acad. Sci. U.S.A. 84, 1876-1880, 1987

A;Title: Cloning and analysis of the promoter region of the human fibronectin gene. A;Reference number: A26460; MUID:87175578; PMID:3031656 A;Accession: A26460 MUID:87175578; PMID:3031656 A;Accession: A26460 MUID:87175578; A;Accession: A26460 MUID:87175578; A;Accession: A26460 MUID:87175578; A;Accession: A2640 MUID:87175578; A;Accession: A2640 MUID:87175578; A;Accession: A2640 MUID:8717578; A2717578; A2

A;Cross-references: UNIPROT:P02751; UNIPROT:Q14327; GB:MI5801; NID:g182686; FIDN:AAA5337 R;Oldberg, A.; Ruoslahti, E. B. Biol. Chem. 251, 2113-2116, 1986 A;Title: Evolution of the fibronectin gene. A;Title: Evolution of the fibronectin gene. A;Reference number: A26284; MUID:86111901; PMID:3003095

A,Molecule type: DNA A,Residues: 1447-1540 <OLD> A,Residues: 1447-1540 <OLD> A,COCE the authors translated the codon TTC for residue 1494 as Glu A,Note: the authors translated the codon TTC for Baralle, R.E. R,Paolella, G.; Henchcliffe, C.; Sebastio, G.; Baralle, R.E. A,Title: Sequence analysis and in vivo expression show that alternative splicing of BD-B A,Reference number: S00848; MUID:88233940; PMID:337S063

A; Molecule type: DNA A; Residues: 1594-1767, V, 1769-1783 <PAO> A; Residues: 1594-1767, V, 1769-1783 <PAO> A; Crose references: EMBL:X0718; NID:931402 A; Note: the authors translated the codon AAC for residue 1631 as Asp R; Vibe-Pedersen, K; Magnusson, S.; Baralle, F.E. R; Vibe-Pedersen, K; Magnusson, S.; Baralle, F.E. A; Vibe-Pedersen, K; Magnusson, S.; Baralle, A.E. A; Vitte: Donor and acceptor splice signals within an exon of the human fibronectin gene: A; Reference number: A24854; MUID:87030929; PMID:3770201

A; Accession: A24854

A; Molecule type: DNA A; Residues: 1992-2147 <VIB> A; Cross-references: 1982-4530; NID:931436 B; Gutman, A.; Yamada, K.M.; Kornblihtt, A. FEBS Lett. 207, 145-148, 1986 A; Title: Human fibronectin is synthesized as a pre-propolypeptide. A; Reference number: A24476; MUID:87030890; PMID:3770189

A;Status: not compared with conceptual translation

A;Wolecule type: mRNA X;Residues: 1-14, Q',16-38 <GUT> R;Kornblihtt, A.R.; Umezawa, K.; Vibe-Pedersen, K.; Baralle, F.E. EMBO J. 4, 1755-1759, 1985

A, Title: Primary structure of human fibronectin: differential splicing may generate at 1

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R;Griffin, C.A.; Calaycay, J.; Shively, J.E.; Smith, R.L.
Thromb. Res. 43, 465-477, 1986
A;Title: Two plasma fibronectin fragments with different gelatin-binding properties.
A;Reference number: A60904; MUID:87019725; PMID:3532418
.; Calaycay, J.; Shively, J.E.; Smith, R.L. 3, 469-477, 1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 heparin binding <HPB>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Accession: A23901
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                                                                                                                                                  AyRolecule type: mRNA
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A,Rolecule type: mRNA
A,Residues: 1948-2067 < UME>
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A,Cross-references: GB:M27589; NID:g182705; PIDN:AAA52465.1; PID:g182706
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A,Residues: 1975-1991;2017-2039 < UM2>
A,Cross-references: GB:M27590
R,Setiguchi, K.; Klos, A.M.; Kurachi, K.; Yoshitake, S.; Hakomori, S.
Biochemistry 25, 4936-4941, 1986
A,Title: Human liver fibronectin complementary DNAs: identification of two different mes A;Reference number: 152394; MUID:87026578; PMID:3021206
A,Rocession: 165273
A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Status: preliminary; translated from GB/EMBL/DDBJ
A,Residues: 1978-1990, 2016-2018, 'N', 2020-2081, 2113-2127 <SEK>
A;Cross-references: GB:M14060; NID:g182701; PIDN:AA52464.1; PID:g182704
A,Cross-references: GB:M14060; NID:g18-3222, 1983
A,Title: Isolation and characterization of CDNA clones for human and bovine fibronecting A,Reference number: A21165; MUID:83221567; PMID:630699
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A, Residues: 2291-2386 < KO3>
A, Cross-references: GEN KO0799; NID: 9182681; PIDN: AAA52460.1; PID: 9182684
R, Gardia-Pardo, A.; Pearlstein, B.; Prangione, B.
J. Biol. Chem. 258, 12670-12674, 1983
A, Title: Primary structure of human plasma fibronectin.
A, Reference number: A92398; MUID: 84032463; PMID: 6630202
A, Residues: A92398
A, Molecule type: protein
A, Residues: A, Cold, L.I.
A, Residues: A, Gold, L.I.
Arch. Biochem. Biophys. 304, 181-188, 1993
Arch. Biochem. Biophys. 304, 181-188, 1993
A, Title: Purther characterization of the binding of fibronectin to gelatin reveals the J, R, Reference number: S34791; MUID: 93312001; PMID: 8323285
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A/Accession: A9042386 ABEA.
A/Residues: 1594-2386 ABEA.
A/Cross-references: GB:M10905; NID:g182696; PIDN:AAA52462.1; PID:g182697
R/Umczawa, K.; Kornblintt, A.R.; Baralle, F.E.
R/Umczawa, K.; Kornblintt, A.R.; Baralle, F.E.
A/Itle: 186, 31-34, 1985
A/Itle: Isolation and characterization of cDNA clones for human liver fibronectin.
A/Reference number: A22245; MUID:85231203; PMID:2989004
           number: A91008; MUID:85284965; PMID:2992939
                                                             Accession: A91008
Status: nucleic acid sequence not shown
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Residues: 291-300;551-560 <GAR2>
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Molecule type: mRNA
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A, Molecule type: protein
A, Residues: 293-301 <GRI>
R; Calaycay, J.; Pande, H.; Lee, T.; Borsi, L.; Siri, A.; Shively, J.E.; Zardi, L.
J. Biol. Chem. 260, 12136-12141, 1985
A, Title: Primary structure of a DNA- and heparin-binding domain (domain III) in human pl
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J. Biol. Chem. 257, 9593-9597, 1982.
J. Stitle: The cell attachment domain of fibronectin. Determination of the primary structure A,Reference number: A92386; MUID:82265604; PMID:7050098
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B;Residues: 1589-1630, T', 1722-2058 <GAR3>
A;Tressel, T.; McCarthy, J.B.; Calaycay, J.; Lee, T.D.; Legesse, K.; Shively, J.E.; Pand Biochem. J. 274, 731-738, 1991
A;Title: Human plasma fibronectin. Demonstration of structural differences between the A;Reference number: S14357; MUID:91190085; PMID:2012601
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A;Molecule type: protein
A;Molecule type: protein
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C;Comment: The extra domain and connecting strand 3 are subject to developmental and tis:
C;Comment: The cellular and plasma fibronectins are high molecular weight glycoproteins, at transformation.
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A; Map position: 2q34-2q34
C; Map position: 2q34-2q24
C; 
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A; Residues: 1441-1548 <PIE>
A; Residues: 1524-1548 <PIE>
A; Mote: residues 1524-1548 are responsible for the cell-binding activity
R; Garcia-Pardo, A.; Rostagno, A.; Frangione, B.
Biochem. J. 241, 923-928, 1987
A; Title: Primary structure of human plasma fibronectin. Characterization
A; Reference number: A32517; MUID:87241275; PMID:3593230
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A;Residues: 1614-1630, T', 1722-2081, 2113-2244 <TRE>
R;Garcia-Pardo, A.; Pearlstein, E.; Frangione, B.
J. Hiol. Chem. 260, 10320-10325, 1985
A;Title: Primary structure of human plasma fibronectin.
A;Reference number: A23891; MUID:85261459; PMID:4019516
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November 11, 2005, 08:29:55; Search time 7.78693 Seconds (without alignments) 1235.843 Million cell updates/sec
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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		ID	US-10-741-601-354	US-10-741-600-1066	5 US-10-344-634-4	US-10-344-634-16	US-09-934-706-1	US-10-344-634-14	US-09-934-706-5	US-10-144-194A-52	US-10-491-566-52	US-09-934-706-4	US-10-741-601-359
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LOCATION: (125)
US-09-934-706-1
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TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLO01499
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 73997
SEQ ID NO 1066
LENGTH: 642
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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Sequence 4, Application US/10344634

Sequence 4, Application US/10344634

Sequence 4, Application US/10344634

SEQUENCE 1 NOTE OF THE OF 
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Sequence 16, Application US/10344634

Publication No. US20040053368A1

GENERAL INFORMATION:
APPLICANT: Ishikawa, Tetsuya
TITLE ON INVENTION: Collagen-Binding Hybrid Polypeptide
FILE REFERENCE: 202650-132
CURRENT APPLICATION NUMBER: US/10/344,634

CURRENT APPLICATION NUMBER: PCT/JP01/07036

PRIOR FILING DATE: 2001-08-15
PRIOR FILING DATE: 2001-08-15

NUMBER OF SEQ ID NOS: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70 PCVLPFTYNGRIFYSCTIEGRQDGHLWCSTISNYEQDQ 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -----DSTISNYEQDQ 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 113; DB 17;
Pred. No. 4.1e-08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         359 PCVLPFTYNGRTCSTTSNYEQDQ 381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 PCVLPFTYNDRTDSTTSNYEQDQ 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 91.3%;
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 PCVLPFTYNDRT-----
                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
CORGANISM: Homo sapiens
US-10-741-600-1066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-344-634-4
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                                                                                      ; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Collagen-binding
; OTHER INFORMATION: Epidermal Growth Factor
15-10-344-634-16
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/09934706
; Sequence 1, Application US/09934706
; Patent No. US20020102709A1
; GENERAL INFORMATION:
; APPLICANT: Terumo Corporation
; TITLE OF INVENTION: Punctional Hybrid Polypeptide with Collagen-binding
; TITLE OF INVENTION: Activity
; FILE REPRENCE: 19990120
; CURRENT APPLICATION NUMBER: US/09/934,706
; CURRENT FILING DATE: 2001-08-23
; NUMBER OF SEQ ID NOS: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gapa
                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                       Score 95.5; DB 15; Length 285;
Pred. No. 6.8e-06;
0; Mismatches 2; Indels 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 343;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Ishikawa, Tetsuya
APPLICANT: Kitajima, Takashi
TITLE OF INVENTION: Collagen-Binding Hybrid Polypeptide
FILE REFERENCE: 029650-132
CURRENT APPLICATION NUMBER: US/10/344,634
CURRENT FILING DATE: 2003-06-18
PRIOR APPLICATION NUMBER: PCT/JP01/07036
PRIOR FILING DATE: 2001-08-15
PRIOR PLING DATE: 2001-08-15
                                                                                                                                                                                                                                                                                                       70 PCVLPFTYNGRIFYSCTTEGRODGHLWCSTTSNYEQDQ 107
                                                                                                                                                                                                                                                                             1 PCVLPFTYNDRT------DSTTSNYEQDQ 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 95.5; DB 9;
Pred. No. 8.4e-06;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 PCVLPFTYNDRT------DSTTSNYEQDQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; Sequence 14, Application US/10344634; Publication No. US20040053368A1; GENERAL INFORMATION:
SEQ ID NO 16
LENGTH: 285
TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                       Query Match 74.0%;
Best Local Similarity 55.3%;
Matches 21; Conservative C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                74.0%;
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Best Local Similarity 55.3
Matches 21, Conservative
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us-09-581-651d-7.rai

Scoring table:

Searched:

OM protein

Run on:

Minimum DB Maximum DB

Database

Result

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Sequence 26, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 20, Appl
Sequence 20, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 113, Appl
Sequence 113, Appl
Sequence 13, Appl
Sequence 13, Appl
Sequence 13, Appl
Sequence 13, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         74.0%; Score 95.5; DB 2; Length 60; 55.3%; Pred. No. 1.7e-07; Attive 0; Mismatches 2; Indel8
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          US-09-136-218-26
US-08-982-597A-19
US-09-136-218-19
US-08-136-218-19
US-08-704-711A-19
US-09-521-220-19
US-09-591-104-20
US-09-949-16
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US-08-138-13
US-08-131-13
US-08-131-13
US-09-131-13
US-09-141-191-13
US-09-141-191-13
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                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 18, Application US/08982597A;
Patent No. 5928693
GENERAL INFORMATION:
APPLICANT: Santoro, Samuel A.
APPLICANT: Statz, William D.
TITLE OF INVENTION: Antithrombotic Peptides
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scott J. Meyer
STREET: 800 No. 5992693th Lindbergh Blvd.
CITY: St. Louis
STARET: No. COUNTRY: USA
                                                                                                                                                                                                                                                                                                                           ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
SOFTWARE: Word Perfect 5.0
CURRENT APPLICATION NATA:
APPLICATION NUMBER: US/08/982,597A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: 60/032,542
FILING DATE: 10-DEC-1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Meyer, Scott J.
REGISTATION NUMBER: 25,275
REFERENCE/DOCKET NUMBER: WU-3002
TELECOMMUNICATION INFORMATION:
TELEPHONE: 314-694-3117
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 55.3
Matches 21, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-982-597A-18
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Sequence 1, Appli
Sequence 2, Appli
Sequence 11, Appl
Sequence 110, Appl
Sequence 10448, Ap
Sequence 10448, Ap
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Sequence 1, Appli
Patent No. 5455158
Patent No. 5455158
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Sequence 16, Appl
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 18, App.
                                                                                                      November 11, 2005, 08:22:00; Search time 2.43529 Seconds (without alignments) 705.019 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 17,
Sequence 17,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1
Sequence 1
Sequence 1
Sequence 8
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| /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
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| /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
             GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
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US-08-220-603A-11
US-09-949-016-6046
US-09-949-016-10448
US-09-194-468A-45
US-09-194-468A-45
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US-08-689-730-17
US-08-689-730-17
US-09-5391-104-19
US-09-391-104-19
US-09-391-104-19
US-09-949-016-6512
US-09-949-016-7937
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US-09-961-403-1
US-08-551-356-2
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US-08-982-597A-23
US-09-136-218-23
                                                                                                                                                                                                                                                                                                                         Total number of hits satisfying chosen parameters:
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5455158-1
                                                                                                                                                                                                                                                                                          513545 segs, 74649064 residues
                                                                                                                                                                                                          1 PCVLPFTYNDRTDSTTSNYEQDQ 23
                                                                                                                                                                                                                                                                                                                                                                                                        Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                             - protein search, using sw model
                                                                                                                                                                                                                                          BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                           seq length: 0
seq length: 200000000
                                                                                                                                                                         US-09-581-651D-7
129
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Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2324
2324
2327
2327
2386
2386
2386
2446
1463
1326
1478
429
631
                                                                                                                                                                         Title:
Perfect score:
Sequence:
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Gaps

15;

222221111111119997654

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Query Match
Best Local Similarity 55.3%;
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: protein
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-08-153-799-16
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Pred. No. 1.7e-07;
0; Mismatches 2; Indels
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US-08-153-799-16

Sequence 16, Application US/08153799

Patent No. 5766883

APPLICANT: Ballance, David J
APPLICANT: Nowlesses: 100 Mountain Avenue
CITY: New Jersey
COUNTRY: USA
ZIP: 0797A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 PCVLPFTYNGRTFYSCTTEGRQDGHLWCSTTSNYEQDQ 52
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                                                            GENERAL INFORMATION:
APPLICANT: Santoro, Samuel A.
APPLICANT: Staatz, William D.
TITLE OF INVENTION: Antithrombotic Peptides
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Scott J. Meyer
STREET: 800 No. 6083914th Lindbergh Blvd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION:
PRIOR APPLICATION NUMBER: US/08/982,597
FILING DATE:
APPLICATION NUMBER: 60/032,542
FILING DATE: 10-DEC-1996
ATTORNEY/AGENT INFORMATION:
NAME: Meyer, Scott J.
REGISTRATION NUMBER: 25,275
REFERENCE/DOCKET NUMBER: WU-3002
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
SOFTWARE: Word Perfect 5.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/136,218
US-09-136-218-18
; Sequence 18, Application US/09136218
; Patent No. 6083914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: 314-694-3117
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 74.0%;
Best Local Similarity 55.3%;
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-136-218-18
                                                                                                                                                                                                                               STREET: 800 No. 6
CITY: St. Louis
STATE: MO
COUNTRY: USA
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ZIP: 07974 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk

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Gapa
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Sequence 1, Application US/08283857

Sequence 1, Application US/08283857

Sequence 1, Application US/08283857

GENERAL INFORMATION:

APPLICANT: GOLD, Leslie I.

APPLICANT: GOLD, Leslie I.

APPLICANT: ROMPBELL, Iain D.

APPLICANT: MILLIAMS, Michael, J.

APPLICANT: WILLIAMS, Michael, J.

TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES, DNA TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES, DNA TITLE OF INVENTION: CODING THEREPOR AND USERS THEREOF

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESSEE: RROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington

STATE: D.C.

STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15;
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Pred. No. 1e-05;
0; Mismatches 2; Indels 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    328 PCVLPFTYNGRTFYSCTTEGRQDGHLWCSTTSNYEQDQ 365
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153,799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: 1..2231
OTHER INFORMATION: /note= "Human fibronectin"
                                                                                                                                               PILING DATE:
CLASSIFICATION 1435
PRIOR APPLICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: US 07/847975
FILING DATE: 0.6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 8909916.2
FILING DATE: 29-APR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB90/00650
FILING DATE: 29-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/775952
FILING DATE: 29-OCT-1991
ATTONEY/ADEAT INFORMATION:
NAME: Swope, R Hain
REGISTRATION NUMBER: 24864
REFERENCE/DOCKET NUMBER: 92H832
TELEFAX: (908) 771 6159
TELEFAX: 219484
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2231 amino acide
TENENT: 231 amino acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
             Copyright
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- protein search, using sw model OM protein November 11, 2005, 07:55:44 ; Search time 8.5085 Seconds (without alignments) 1045.483 Million cell updates/sec Run on:

US-09-581-651D-7 score: Title: Perfect sc Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692 segs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

geneseqq1980s:* geneseqp1990s:* geneseqp2000s:* geneseqp2001s:* geneseqp2001s:* geneseqp2001as:* geneseqp2003bs:* geneseqp2004s:* A_Geneseq_16Dec04:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

1		ا مه				
No.	Score	Match	Vuery Match Length	DB	ID	Description
7	129	100.0	23	7	AAY28912	Aay28912 MSF 1-alp
7	129	100.0	24	~	AAY28904	Aay28904 MSF 1-alp
m	129	100.0	099	7	AAY28901	Humar
4	122	94.6	642	8	ADR67316	_
വ	122	94.6	642	8	ADS17489	Ads17489 Amino aci
ø	122	94.6	642	œ	ADR97658	Adr97658 Human fib
7	113	87.6	642	8	ADQ39403	Adq39403 Human myo
80	95.5	74.0	39	~	AAY28908	8 Peptid
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10	95.5	74.0	228	Ŋ	ABB06747	_
7	95.5	74.0	285	ß	ABB06751	Abb06751 Collagen-
12	95.5	74.0	343	ო	AAB08505	Aab08505 Amino act
13	95.5	74.0	343	Ŋ	ABB07961	
14	95.5	74.0	386	ß	ABB06750	Abb06750 Collagen-
15	95.5	74.0	400	m	AAB08509	Aab08509 Hybrid of
16	95.5	74.0	461	ហ	ABB07964	Abb07964 Human fib
17	95.5	74.0	463	9	ABR58303	Abr58303 BCU0770 p
18	95.5	74.0	473	ß	ABB07965	Abb07965 Human fib
13	95.5	74.0	501	٣	AAB08508	Aab08508 Hybrid of
20	95.5	74.0	657	æ	ADQ39409	Adq39409 Human myo
21	95.5	74.0	720	~	AAY28914	Aay28914 Fibronect
22	95.5	74.0	951	8	ADS19044	Ade19044 Chimeric
23	95.5	74.0	984	8	ADQ39406	
24	95.5	74.0	1173	4	ABG22275	Novel
25	95.5	74.0	1179	æ	ADP75952	

Adp30365 Human sec Adp75957 Human leu Adr66462 Human pro	Adr66120 Human pro Abo01289 Human pro Adm365950 Human NOV Aam38647 Human pol Abr40124 Human cel	Human Human Human Human	Human Human Human Human	Aeg.2551 Human Flo Aeg70373 Human fib Aer15468 Human fib Aeg68182 Fibronect
ADP30365 ADP75957 ADR66462	ADR66120 ABC01289 ADN95950 AAM38647 ABR40124	ADQ39412 AAE37107 ABR42588 ABO01288	ADN95948 ADR90519 AAR92778	AAE23651 AAP70373 AAR15468 AAG68182
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### ALIGNMENTS

Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin. AAY28912 standard; peptide; 23 AA. 98WO-GB003766 97GB-00026539 MSF 1-alpha peptide epitope. (first entry) Homo sapiens WO9931233-A1 15-DEC-1998; 21-SEP-1999 24-JUN-1999. Synthetic. AAY28912; RESULT 1 AAY28912 

16-DEC-1997;

(UYDU-) UNIV DUNDEE.

Schor SL, Schor AM;

WPI; 1999-430039/36.

Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.

Claim 29; Page 61; 86pp; English.

The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. Sequences AAY28912-913 represent peptide epitopes of MSF against which monoclonal antibodies can be raised

Sequence 23 AA;

Query Match 100.0%; Score 129; DB 2; Length 23; Best Local Similarity 100.0%; Pred. No. 1.3e-12; Matches 23; Conservative 0; Mismatches 0; Indels

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Proteins with cell migration stimulatory activity used in treating wound
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PILARSKY C.
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HINZMANN B.
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                                                                                                                                                                                                                                       N-PSDB; AAX81299
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            Homo sapiens
                                        W09931233-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Proteins with cell migration stimulatory activity used in treating wound
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                                                                                                                                                                                                                                    Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha.
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0; Mismatches 0;
            PCVLPFTYNDRTDSTTSNYEQDQ 23
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Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Bukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus.

Bukaryota; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

E 1 (bases 1 to 380)

Sharov,A.A., Plao,Y., Matoba,R., Dudekula,D.B., Qian,Y.,

VanBuren, V., Falco,G., Martin,P.R., Stagg,C.A., Bassey,U.C.,

Tanaka,T.S., Kinber,W.L., Yoshikawa,T., Jaradat,S.A., Pantano,B.,

Nagaraja,R., Boheler,K.R., Taub,D., Hodes,R.J., Longo,D.L.,

Schlessinger,D., Keller,J., Kluath,T., Hogan,B.L., Curci,A.,

D'Urso,M., Kelso,J., Hide,W. and Ko,M.S.

Transcriptome analysis of mouse stem cells and early embryos

PLOS Biol. 1 (3), 410-419 (203)

Contact: Dawood B. Dudekula

Laboratory of Genetics

National Institute on Aging/National Institutes of Health

National Institute on Aging/National Institutes of USA
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                                                                                        AJ668111
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AJ685866
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Plate: E0452 row: H column: 02
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High quality sequence Btop: 380
POLYA-No.
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CN419625
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Mus musculus
RESULT 1
CN701692
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DEFINITION
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KEYWORDS
SOURCE
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JOURNAL
COMMENT
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AUTHORS
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 -WODEL-frame+_p2n.model -DEV-x1h
-WODEL-frame+_p2n.model -DEV-x1h
-WODEL-frame+_p2n.model -DEV-x1h
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-UNITS=bits -START=1 -END=-1 -MATRIX=100 -TTRANS=human40.cdi -LIST=45
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-OTO-TEMT-p2D - NORM-ext -HEAPSIZE=500 -MINLEN-0 -MAXLEN=200000000
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-NO_WMAP -LARREQUERY -NGG SCORES=0 -MINLEN-DCR-LOO -LONGLOG
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-FGAPEXT=7 -YGAPOP=10 -YGAPOP=0.5 -DELOP=6 -DELEXT=7
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AL589418 DKFZp451P
BE079849 RC6-BT062
BE122858 14 08 Hum
BX642740 DKFZp781G
BE815722 PM3-BN017
CD550770 B0318C06-
AJ661698
BG007031 RC1-GN023
                                                                                ; Search time 478.34 Seconds
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1830.243 Million cell updates/sec
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            GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                           nucleic search, using frame_plus_p2n model
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1 PCVLPFTYNDRTDSTTSNYEQDQ 23
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BG007031
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Maximum DB &
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Database :

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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (Dases I to 192) Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Godani, G., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bardin, S., Simpson, D.H., Brunstein, A., deoliveira, P. S., Bucher, P., Jongeneel, C. V., O'Harre, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   392 bp mRNA linear EST 12-JUN-2000 RC6-BT0627-220300-012-F02 BT0627 Homo sapiens cDNA, mRNA sequence. BE079849
                                                           Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from 8. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKEZ); Email 8 wiemannaGkfz- heidelberg.de;
sequenced by GBF (National Research Centre for Biotechnology Ltd.,
Braunschweig/Germany) within the cDNA sequencing consortium of the
German Genome Project.

This clone (DKFZp451P1415) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              133 ccargreterraccarreaceracaarescaeseseserecreceseseseses 192
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Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone_lib="451 (synonym: hlcc1) spinal cord"
/note="Vector: pSport1; Site_1: Not1; Site_2: Sall"
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Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
                                                                                                                                                                                                                                                                                                                                                                       /organism="Homo sapiens"
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Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                             1. .385
                        Contact: MIPS
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                                                                                                                                                                                                                                                                                                 /note="Vector: pCMV-SPORT6 (Invitrogen); Site 1: Sall; Site 2: Not1; Mouse cDNA project by the Laboratory of GeneTics, National Institute on Aging (NIA). Intramural Research Program, NIH (http://lgsun.grc.nia.nib.gov/cDNA). This is a long-transcript enriched cDNA library (Ref. Genome Res. 11: 1533-1558 (2001). [PMID: 115441991). Total RNAS were extracted from a pool of 3 embryos at 11:5-days postcoitum. Double-stranded cDNAs were synthesized with an Oligo(dT) primer [Invitrogen: PMA polymerase, and purified by ethanol-precipitation. The cDNAs were ligated to Lone-linker Li-Sal4, purified by phenol/chloroform, and separated from free linkers by Centricon 100. Then, the cDNAs were purified by long-range high fidelity PCR using Ex Tag polymerase (Takara) with a primer Sal4-S. The products were purified by phenol/chloroform and Centricon 100. The cDNAs were diseated with Sall and Not! enzymes and cloned into Sall/Not! site of pCMV-SPORT6 plasmid vector. The DH108 E. coli host was transformed with the ligation mixture by the standard chemical method. The average insert size is about 3.3Kb. The library was
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DKFZP451P1415_r1 451 (synonym: hlcc1) spinal cord Homo sapiens cDNA clone DKFZp451P1415_5', mRNA sequence.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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EST (Bloecker, H., Boecher, M., Brandt, P., Mewes, H.W., Weil, B. and
                                                                                    /db_xref="idaEST:80452H02-5"
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/lab-host="DH108"
/clone lib="NIA Mouse E11.5 whole embryo cDNA library (Long)"
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AL589418.1 GI:13243190
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-TRANS=NOO0000 -USR=COS9581651 @CGN 1 1.1041 @runat 07112005 092226 28867
-NGVPG - LCPU=3 -NO MMAP -LARGEQUERY -NGG $\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\overline{\o
                                                                                                                                                                                                                                                                                                                                      November 11, 2005, 15:20:41; Search time 118.097 Seconds (without alignments) 1610.594 Million cell updates/sec
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(cgn2 6/ptodata/1/pubpna/USO7 PUBCOMB.seq:*

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/ptodata/1/pubpna/US10_NEW_PUB.seq2:*
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                        nucleic search, using frame_plus_p2n model
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Maximum DB seq length: 200000000
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                                                        Copyright
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

	Description	equence 49,	4288	equence 49,	ednence	Sequence 238,	273,	5/3	m i	891	Seguence 15,	, 8	e 13,	Sequence 11:	16,	equence 15,	e 75,	equence 24	eguence 22;	equence 51,	equence 51	e 72	equence 24:	equence 1,	equence 3,	equence 49	Seguence 38	74	63	equence 6	75	75	equence 1289	equence 222,	edneuce	equence 654,	equence 654,	equence 88,	equence 603,	equence 5877	equence 654,	equence 52,	equence 4, A	equence 2, A	equence 77,	Sequence 245, App	
	QI	US-10-210-120-49	-10-956-157-	-10-909-035-4	11-601-70	5-10-741-600-2	09-815-343-2	97-105-	-10-344-634-3	-198-846-	0-344-634-1	-934-106-	344-634-13	0-198-846-	-934-706-1	-09-934-706-1	3-10-741-60	S-10-741-600-244	3-10-450-763-22	-10-144-194A-	S-10-491-566-5	-10-741-601-	-10-741-600-2	-236-392	-10-236-392-3	-956-157-4	-831-704-38	964-824A	-171-311-63	-10-236-031B-	-374-979-75	-10-182-936A-75	-10-641-643-12	-10-717-597-2	10-788-792-79	-10-477-238A-	-10-680-287A-6	10-278-698-88	-10-278-698-60	-10-843-641A-5	-10-477-173-	-10-852-335A-5	-10-447-16	S-10-084-817-	-10-741-601-77	S-10-741-6	
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* 6	Match		7	ζ.	87.6	Ξ.	Ξ.	٠.	₹.	₹.	4	74.0	74.0	4.	4	4.	74.0	4.	4	4.	74.0	4		4.	74.0	74.0	4	4.	4.	4	4.	4.	4	٠.	φ.	•	<u>.</u>		4.	4.	4.	4.	74.0	4.	74.0	74.0	
	Score		113	-	н.	Ξ.	'n	Ġ	'n	'n	'n.	95.5	95.5	95.5	'n.	95.5	'n	'n.	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	35.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	
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#### ALIGNMENTS

RESULT 1
US-10-210-120-49
US-10-210-120-49
Sequence 49, Application US/10210120
Publication No. US20030175736A1
GENERAL INFORMATION:
APPLICANT: Chinnalyan, Arul M.
APPLICANT: Rubin, Mark A.
APPLICANT: Steekumar, Arun
TITLE OF INVENTION: Expression Profile of Prostate Cancer;
FILE REFERENCE: UM-07221
CURRENT APPLICATION NUMBER: US/10/210, 120
CURRENT FILING DATE: 2002-08-01
PRIOR PILING DATE: 2001-08-02

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1447 CCATGTGTCTTACCATTCACCTACAATGGCAGGACGTGCAGCACAACTTCGAATTATGAG 1506
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 70, Application US/10741601

Sequence 70, Application US/10741601

Publication No US20040166519A1

GENERAL INFORMATION:

APPLICANT: CARGILL, Michele et al.

TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CLO01500

CURRENT APPLICANTON NUMBER: US/10/741,601

CURRENT FILING DATE: 2003-12-22

NUMBER OF SEQ ID NOS: 26415

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 70

LEMCTH: 2443

TYPE: DNA

ORGANISM: Homo sapiens

US-10-741-601-70
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Matches:
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Mismatches:
Indels:
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Matches:
APPLICANT: Laxman, Bharathi
APPLICANT: Sreekumar, Arun
TITLE OF INVENTION: AMACR
CURRENT APPLICATION NUMBER: US/10/909,035
CURRENT FILING DATE: 2004-07-30
NUMBER OF SEQ ID NOS: 123
SEQ ID NO 49
LENGTH: 2127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 238, Application US/10741600
; Publication No. US20050026169A1
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                                                                                                                                                                                  ; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-909-035-49
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Best Local Similarity:
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Query Match:
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US-10-741-600-238
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Publication No. US20050118625A1

GENERAL INFORMATION:

APPLICANT: Wyeth

APPLICANT: Wyeth

TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES

TITLE OF INVENTION NUMBER: US/10/956,157

CURRENT APPLICATION NUMBER: US/10/956,157

CURRENT PILING DATE: 2004-10-04

NUMBER OF SEQ ID NOS: 319805

SOFTWARE: PATENTIN VETSION 3.2

SEQ ID NO 4288

LENGTH: 2127
                                                                                                                                                                                                                                                                                                                                                                                    1131 CCATGTGTCTTACCATTCACCTACAATGGCAGGACGTGCAGCACACATTCGAATTATGAG 1190
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Matches:
Conservative:
Mismatches:
Indels:
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     60/334,468
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US-10-909-035-49
; Sequence 49, Application US/10909035
; Publication No. US20050136493A1
; GENERAL INFORMATION:
; APPLICANT: Rubin, Mark A.
; APPLICANT: Chinnaiyan, Arul M.
PRIOR APPLICATION NUMBER: US 60/3;
PRIOR FILING DATE: 2001-11-15;
NUMBER OF SEQ ID NOS: 123
SOFTWARE: Patentin version 3.2;
SEQ ID NO 49
LENGTH: 2127
TYPE: DNA
TYPE: DNA
CORGANISM: Homo sapiens
US-10-210-120-49
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US-10-956-157-4288
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Best Local Similarity:
Query Match:
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US-10-956-157-4288
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SECULOR STATE OF STATE CANCER, TITLE OF INVENTION: OF PROSTATE CANCER, TITLE OF INVENTION NUMBER: US 60/079,303

PRIOR PELING DATE: 1998-03-25

PRIOR PELING DATE: 1998-03-25

PRIOR FILING DATE: 1997-12-24

WUMBER OF SEQ ID NOS: 191

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 38

LENGTH: 679
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Sequence 1, Appli
Sequence 86573, A
Sequence 86573, A
Sequence 915, App
Sequence 915, App
Sequence 2444, App
Sequence 12677, Ap
Sequence 12677, A
Sequence 10119, A
Sequence 2066, Ap
Sequence 11886, A
Sequence 2066, Ap
Sequence 2066, Ap
Sequence 21313, A
Sequence 641, App
Sequence 21313, A
Sequence 26179, Ap
Sequence 26179, Ap
Sequence 96515, A
Sequence 96515, A
Sequence 97131, A
Sequence 98131, A
Sequence 98131, A
Sequence 98131, A
Sequence 98131, A
Sequence 98663, A
Sequence 98131, A
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Sequence 98131,
Sequence 98397,
Sequence 98929,
Sequence 99195,
Sequence 99195,
Sequence 99161,
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           US-09-949-016-36296

US-09-949-016-36296

US-09-949-016-4537

US-09-949-016-4537

US-09-949-016-4537

US-09-949-016-12644

US-09-949-016-12647

US-09-949-016-12639

US-09-949-016-12639

US-09-949-016-1283

US-09-949-016-1383

US-09-949-016-1383

US-09-949-016-1383

US-09-949-016-1383

US-09-949-016-1383

US-09-949-016-1383

US-09-949-016-9535

US-09-949-016-9785

US-09-949-016-97865

US-09-949-016-97865
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Matches:
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Mismatches:
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95.50
55.26%
55.26%
74.03%
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5633
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; ORGANISM: Homo sapiens
US-09-220-132-38
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Best Local Similarity:
  Alignment Scores:
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-MODEL-frame+_pzn.model -DEV=xlh
-MODEL-frame+_pzn.model -DEV=xlh
-MODEL-frame+_pzn.model -DEV=xlh
-D=/G012_1/USFTO_spool_b/USG09581651/runat_07112005_092224_28801/app_query.fasta_1.1834
-D=/G012_1/USFTO_spool_b/USG09581651/runat_07112005_092224_28801/app_query.fasta_1.1834
-D=/G012_1/USFTO_spool_b/USG09581651_END=-1 -MATRIX=blosum62 -TRANS=buman40.cdi
-LIST=ENDORELTGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0.0 -ALIGN=15
-MODEL-COAL -OUTFMT=pct -NORM=ext -HEAPS/IZE=500 -MINLEN=0 -MAXIEN=200000000
-USER=USG09581651_@CGN 1_1_187_@crunat_07112005_092224_28801 -NCPU=6 -ICPU=3
-NO_WMAP -LARGEQUERY -NGG_SCORES=0 -WAIT -BSPBLCK=150 -LONGLOG
-DGV_TIMEOUT=120 -WARN TIMEOUT=30 -THREADS:1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPORT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1289, Ap
Sequence 6, Appli
Sequence 16, Appl
Sequence 16, Appl
Patent No. 5455158
Patent No. 5455158
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Sequence 1, Appli
Sequence 135, App
Sequence 8, Appli
Sequence 8, Appli
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                                                                                               November 11, 2005, 08:49:16; Search time 23.1503 Seconds (without alignments) 1625.652 Million cell updates/sec
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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.
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Sequence 8,
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1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
                 GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd
                                                                       nucleic search, using frame_plus_p2n model
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US-09-023-655-1289
US-08-255-0819-6
US-08-259-569-16
US-08-826-885-16
5455188-2
US-08-551-356-1
PCT-US93-12687-1
US-09-56-921-135
US-09-56-921-135
US-07-637-250A-8
US-07-6145-061-8
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Maximum Match 100%
Listing first 45 summaries
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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seq length: 200000000
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Perfect score:
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                                                                                                    Run on:
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No.
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## Sequence 1289, Application US/09023655
## Pacent No. 6607879
## GENERAL INFORMATION:
## APPLICANT: Cocks Benjamin G.
## APPLICANT: Cocks Benjamin G.
## APPLICANT: Offerey J. Seilhamer
## TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
## TITLE OF INVENTION: EXPRESSION
## NUMBER OF SEQUENCES: 1508
## CORRESPONDENCE ADDRESS:
## ADDRESSER: INCYTE PHARMACEUTICALS, INC.
## STREET: 3174 PORTER DRIVE
## COUNTRY: USA
## COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               995 CCATGTGTCTTACCATTCACCTACAATGGCAGGACGTTCTACTCCTGCACCACGGAAGGG 1054
                        1055 CGACAGGACGGACATCTTTGGTGCAGCACAACTTCGAATTATGAGCAGGACCAG 1108
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----AspSerThrThrSerAsnTyrGluGlnAspGln 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COUNTRY: USA
ZIP: 94304
COMPUTER READALLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
FILING DATE: HEREWITH
CLASSIFICATION
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION NUMBER:
FILING DATE:
CLASSIFICATION NUMBER:
FILING DATE:
TELEFONDING CATON:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: PA-0001 US
TELEFONDING CATON INFORMATION:
TELEFONDING CHARACTERISTICS:
LENGTH 7680 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TYPE: LOGGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
TOPPOLOGY: Linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
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Conservative:
Mismatches:
Indels:
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55.26%
74.03%
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Best Local Similarity:
Query Match:
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US-09-023-655-1289
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13 -----AspSerThrThrSerAsnTyrGluGlnAspGln
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APPLICANT: Levanon, Avigdor
APPLICANT: Levanon, Avigdor
APPLICANT: Guy, Rachel
APPLICANT: Panet, Amos
APPLICANT: Panet, Amos
APPLICANT: Shaked, Hadassa
APPLICANT: Shaked, Hadassa
ATTLE OF INVENTION: FIBRIN BINDING DOMAIN POLYPEPTIDES AND
                                                                TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES, I TITLE OF INVENTION: CODING THEREFOR AND USES THEREOF NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS: ADDRESS: ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Mashington
STATE: D.C.
                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 20004
ZIP: 20004
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/09819
FILING DATE:
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Matches:
Conservative:
Mismatches:
Indels:
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APPLICATION NUMBER: US 08/283,857
FILING DATE: 01-A0C-1994
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: GOLD-1A PCT
TELEPHONE: 202-628-5197
TELEPHONE: 202-628-5197
TELEPKY: 202-737-3528
TELEX: 248633
INFORMATION FOR SEQ ID NO: 6:
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Sequence 6, Application PC/TUS9509819
GENERAL INFORMATION:
APPLICANT:
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US-08-259-569-16
US-08-259-569-16
Sequence 16, Application US/08259569
Patent No. 5679320
Patent No. 5679320
GENERAL INFORMATION:
APPLICANT: Vogel, Tikva
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95.50
55.26%
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LENGTH: 7680 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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Query Match:
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Ads17488 Nucleotid
Adre97657 Human fib
Adre7201 Human bla
Add18477 Human pro
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                                                                                       GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                          nucleic search, using frame_plus_p2n model
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Maximum Match 100%
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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genesequi2002as: *
genesequi2002bs: *
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Maximum DB
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No.
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ACR87768 Breast ca

AA120269 COL1896n-

AA5120269 COL1896n-

AA5120269 COL1896n-

AA5141020 MODITIES

AA5141020 MODITIES

AA5141020 MODITIES

AA6141020 Breast ca

AA6141020 Breast ca

AA6141020 Human fib

AA641020 Human fib

AA615036 Chimeric

AA615034 Human sec

AA615034 Human min

AA62513 Human min

AA62513 Human min

AA62513 Human ade

AA67595 Human ade

AA67595 Human cDN

AA676595 Human cDN

AA66619 Human pro

AA66637 Human CDN

AA66637 Human CDN
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Aaf21131 Human low
Aba82689 Fibronect
Ab167540 Thyroid c
Abt11082 Human bre
                Aas57597 cDNA #273
Ads19041 Human fib
Ab150261 Human fib
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Adb31322 Testoster
Add38575 Human SNP
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AAA64271
ABL41027
ABL41028
AAA64270
AAA86462
AAA86462
ADP75954
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ADP75959
ADP759598
ADP75959
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ACC00412
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AAL20536
ABL50269
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AAA64263
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AAF21131
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P-PSDB; AAY28901.
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AAX81299;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCATGTGTCTTACCATTCACCTACGACGACGGACGGACAGCACAACTTCGAATTATGAG 1190
                                                                                                                                                                                                                                                                                                                                                                                                                                             cell state; time-lapse profile; protein-protein interaction; drug screening; cancer; infectious disease; allergy; hypertension; hyperlipaemia; diabetes; cardiac disease; cerebral infarction; dementia; obsity; arteriosclerosis; infertility; mental disease; nervous disease; cataract; progeria; hypersensitivity; ultraviolet radiation; human; fibronectin 1; actin acting substance; transfection array; gene; ds.
         Proteins with cell migration stimulatory activity used in treating wound
                                                                  protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. The present sequence represents the nucleotide sequence encoding a human MSF1-alpha protein
                                                                                                                                                                                                                                                          1 ProCysValleuProPheThrTyrAsnAspArgThrAspSerThrThrSerAsnTyrGlu
                                                           The invention provides a human migration stimulatory factor (MSF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Presenting a state of a cell, useful for diagnosing and treating
                                                                                                                                 Sequence 2147 BP; 575 A; 512 C; 575 G; 485 T; 0 U; 0 Other;
                                                                                                                                                                2147
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Matches:
Conservative:
Mismatches:
Indels:
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                                                                                                                                                                                                                                                                                                                                                                                                                            sequence of human fibronectin 1.
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/product= "fibronectin 1"
                                                                                                                                                                                                                  Gaps:
                                                                                                                                                                                                                                     US-09-581-651D-7 (1-23) x AAX81299 (1-2147)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          location/Qualifiers
                                       Example 1; Fig 1; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                ADS17488 standard; DNA; 1929 BP.
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/*tag= a
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                    and preventing scarring
                                                                                                                                                                                                                                                                                                                      CAGGACCAG 1199
                                                                                                                                                                                                                                                                                                   GlnAspGln 23
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                                                                                                                                                                                             Best Local Similarity:
Query Match:
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                                                                                                                                                                                    Percent Similarity:
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                                                                                                                                                       Alignment Scores:
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                                                                                                                                                                                                                                                                                                                                                                                    ADS17488;
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The specification describes a method and system for accurately presenting a state of a cell. The method comprises obtaining a time-lapse profile of the cell by time-lapse monitoring of a gene state associated with at least one gene derived from the cell, and presenting the time-lapse corprises a transcription control sequence, and the corprises a transcription control sequence, and the gene state includes expression of the gene. The method and system are useful presenting a state of a cell. The method can allow the elucidation of key protein interactions suitable for targeting by drug screening protocols. The method is useful for diagnosing or treating a classase, e.g. cancer, infectious disease due to viruses or bacteria, allergy, hypertension, hyperlipaemia, diabetes, cardiac disease, cerebral infarction, dementia, obesity, arteriosclerosis, infertility, mental and nervous diseases, cataract, progeria, or hypersensitivity to ultraviolet candiation. The present sequence encodes human fibronectin . Bovine fibronectin was used as a candidate for an acting substance. The actin acting substance was used with transfection reagents and amplified fibronectin was used with transfection arrays, in the course of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1075 CCATGTGTCTTACCATTCACCTACAATGGCAGGACGGACAGCACCACTTCGAATTATGAG 1134
disease, e.g. cancer, infectious disease, allergy, diabetes, dementia, obesity, infertility, or cataract, comprises obtaining a time-lapse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ProCysValleuProPheThrTyrAsnAspArgThrAspSerThrThrSerAsnTyrGlu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1929 BP; 507 A; 462 C; 544 G; 416 T; 0 U; 0 Other;
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/product= "Fibronectin protein"
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                                                                                                                                        Disclosure; SEQ ID NO 1; 532pp; English
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                                          obesity, infertility
profile of the cell.
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Query Match:
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CQ871828 Sequence
CQ87558 Sequence
AZ26052 Sequence
AZ26052 Sequence
AZ26052 Sequence
BD13747 Collagen-
BD133458 Collagen-
BD13465 Collagen-
BD133465 Collagen-
BD13347 Hybrid po
BD133465 Collagen-
BD13347 Hybrid po
AJ55086 Homo sapi
BX640999 Homo sapi
AX2771 Homo sapi
AX277595 Sequence
AX3771 Homo sapi
AX377595 Sequence
AX37596 Sequence
AX37596 Sequence
AX37596 Sequence
BU110 Sequence
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BU110 Sequence
AX36167 Sequence
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Mammalia; Butheria, Primates; Catarrhini, Hominidae, Homo.

1 (Dasea I to 2147)
Schor, S.L. and Schor, A.M.
Polypeptides, polymucleotides and uses thereof
Patent: JP 2002508179-A 1 19-MAR-2002;
UNIVERSITY OF DUNDEE

OS Homo sapiens (human)
PN JP 2002508179-A/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-MAR-2002
15-DEC-1998 JP 2000539133
16-DEC-1997 GB 9726539.1
SETH LAWRENCE SCHOR, ANA MARIA SCHOR
C12N1S/09, A61K38/00, A61P17/02, C07K14/78, C07K16/18, C12N5/10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PC C12Q1/68,G01N33/574,C12N15/00,A61K37/02,C12N5/00 CC Polypeptides, polynucleotides and uses thereof. FH Key Location/Qualiflers
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Polypeptides, polynucleotides and uses thereof.
BD137021
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CQ731571
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HSM807162
BV178397
HSM803603
HSM803509
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HSFIB1
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HSM806214
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AR034630
E01162
I70110
AR364992
AB191261
                       CQ875358
AF360622
AF3260622
AF3260622
BD142777
CQ427970
BD142797
BD133469
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BG3263
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BD133476
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BD133477
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JP 2002508179-A/1.
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     RESULT 1
BD137021
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DBFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
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AUTHORS
TITLE
JOURNAL
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       Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-Q=/Cgn2 1/USFO spool h/USOS981651/runat 07112005 092223 28778/app_guery.fasta_1.1834
-Q=/Cgn2 1/USFO spool h/USOS981651/runat 07112005 092223 28778/app_guery.fasta_1.1834
-DB=GenEmbl -QFMT=fasta_p -SUFFIX=p2n.rge -MINMATCH=0.1 -LÃOPCL=0 -LÃOPEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MINS=0 -MAXLEN=200000000
-USEP-DOCALIGN=200 -THR_SCORE=500 -MINIEN=0 -MAXLEN=2000000000
-USER-USOS981651_@GGN 1 1 9936 @runat 07112005 092223 28778 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPENCCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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AX003229 Sequence
AJ276395 Homo Bapi
CQ871810 Sequence
                                                                                                                           November 11, 2005, 08:45:16; Search time 615.799 Seconds (without alignments) 1809.796 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                        GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                              frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                                            4708233 seqs, 24227607955 residues
                                                                                                                                                                                                                                                                                                                                                                                                                           of hits satisfying chosen parameters:
                                                                                                                                                                                                                                          1 PCVLPFTYNDRTDSTTSNYEQDQ 23
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Maximum Match 100%
Listing first 45 summaries
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AX003229
HSA276395
CQ871810
                                                                                                                                                                                                                                                                                              Xgapop 10.0, Xgapext (Ygapop 10.0, Ygapext (Ygapop 6.0, Fgapext Delop 6.0, Delext
                                                                                            nucleic search, using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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129
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90b htg: *
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Polypeptides, polymucleotides and uses thereof
Patent: WO 9931233-A 2 24-JUN-1999;
SCHOR SETH LAWRENCE (GB); UNIV DUNDEE (GB)
Localion/Qualifiers
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Baillie, R. and Clausen, J.
Migration stimulating factor (MSF): A novel transcription variant
of the fibronectin gene
Unpublished
2. (bases I to 2147)
Schor, S.L.
Direct Submission
Submitted (06-MAR-2000) Schor S.L., The Dental School, Univeristy
of Dundee, Park Place, Dundee DD1 4HR, Scotland
Location/Qualifiers
                                                                                                              Vertebrata; Euteleostomi;
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Mon Nov 14 10:15:22 2005
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

November 11, 2005, 07:57:14 ; Search time 6.45098 Seconds (without alignments) 1666.981 Million cell updates/sec Run on:

US-09-581-651D-6 122 1 QQWERTYLGNALVCTCYGGSR 21 Title: Perfect score: Sequence:

Scoring table:

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Searched:

1612378 Total number of hits satisfying chosen parameters: 1612378 seqs, 512079187 residues

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

	4	Description	Q8c6j7 mus musculu	homo	homo	9 homo	homo	homo	homo	homo	mus 1	P04937 rattus norv	Q6mzu5 homo sapien	P07589 bos taurus	Q6dd34 xenopus lae	Q91740 xenopus lae	•••	Q68dp8 homo sapien	093405 brachydanio	093406 brachydanio	Q28749 oryctolagus	Q862c9 bos taurus	homo	Q71553 homo sapien	_	Q6pje5 homo sapien	Q7t182 brachydanio	Q71u44 bos taurus	mus n	homo	_	Q91289 pleurodeles	Q68cx6 homo sapien
SUMMAKIES	4	ın	Q8C6J7	Q7Z391	Q6MZF4	Q68DP9	Q6N0A6	Q68DT4	FINC HUMAN	Q6N025	FINC_MOUSE	FINC_RAT	Q6MZU5	FINC BOVIN	Q6DD34	FINC_XENLA	Q6GQA5	Обвррв	093405	093406	FINC_RABIT	0862C9	О9н382	Q7L553	00366Ö	Q6PJE5	Q7T1S2	Q71U44	QBR3F3	Q6N084	06MZS0	FINC PLEWA	Q68CX6
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	3	score	122	122	122	122	122	122	122	122	122	122	122	117	114	114	114	113	84	84	75	75	75	75	75	75	75	75	75	75	75	75	75
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Q6mzm7 homo sapien Q6jan2 brachydanio O02816 oryctolagus O46557 equus cabal Q9wc76 peanut gtun Q70944 triticum ae Q8h518 oryza sativ Q8msel drosophila P29162 nicotiana t Q7pxm0 anopheles Q63142 burkholderi Q7ytr6 caenorhabdi Q895c3 bifidobacte
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ALIGNMENTS

RESULT 1 QBC6J7 ID QBC6J7 PRELIMINARY; PRT; 296 AA. AC 08C6J7;		01-MAR-2004 (TrEMBLrel. 26, Last annotation update)	DE Mus musculus 2 days pregnant adult temale ovary cDNA, KIKEN tull- DE length enriched library, clone:E330027109 product:fibronectin 1, full	insert	Mus musculus (Mouse).	Eukaryota, Metazoa,	Rodentia;			RC STRAIN=C57BL/6J; TISSUB=Ovary;		RT "High-efficiency full-length cDNA cloning.";	Meth. Enzymol. 303:19-44(1999).			RC STRAIN-C57BL/647 TISSUB-OVARY;			Nature 409:685-690(2001).			RC STRAIN=C57BL/6J; TISSUB=Ovary;		The filter delications by the months transcriptions based on functional annotation of	60.770 full-length chase.";	RI Nature 420:563-573 (2002) .	[4]		RC STRAIN=C57BL/6J; TISSUE=Ovary;	MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;		Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;	KI "NOTMEALIZATION ANG BUDITECTION OF CAP-LIADPER-BELECTEG COUNS TO THE TOTAL OF TH			AN LOJ RD SROJENCE FROM N. A.	RC STRAIN=C57BL/6J; TISSUE=Ovary;		RA Shibata K. Itoh M. Aizawa K., Nagaoka S., Sasaki N., Carninci P.,		Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A		Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki	
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                                                                                              STRAIN-C57BL/6J; TISSUE=Ovary;
Adachi J. Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P., Adachi J., Aizawa K., Akimura T., Hara A., Hashizume W., Pukuda S., Furuno M., Harangaki T., Haracka T., Hirozane T., Hayashida K., Hayatsu M., Hiranaco K., Hiracka T., Hirozane T., A Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T., A Kurihara C., Matsuka T., Minazaki M., Murata M., Nakamura M., Koya S., Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y., Saitoh H., Sakai C., Sakai K., Sahashu N., Sano H., Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M., Tagawa A., Takaku. Akahira S., Takeda Y., Tanaka T., Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.; Shinagawa A., Shisaki M., Hayashizaki Y.; Rambi, Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.; Rambi, Q96KP?; IFBR.
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Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J., Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.; RIKTKN Integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer."; Genome Res. 10:1757-1771(2000).
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1818SUB-Human colon endothel primary cell culture;
1910ecker H., Boccher M., Mewes H.W., Weil B., Amid C., Osanger A.,
Pobo G., Han M., Wiemann S.;
1910mitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
1910EMBL; BX588045; CAD97984.1;
1910EMBL; BX588045; IPBR.
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Bukaryota: Metazoa, Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
VCBI_TaxID=9606;
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InterPro; IPR006209; EGF like.
InterPro; IPR006309; Fibrnctnl.
Pfam; PF00013; fnl; 5.
PRINTS; PR00012; FNTYPEI.
SWART; SW00058; FNL; 5.
PROSITE; PS00022; EGF l; UNKNOWN 1.
PROSITE; PS01253; FIBRONECTIN 1; 5.
SEQUENCE 296 AA; 32617 MW; AOFFSF4809FB6439 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-0CT-2003 (TrEMBLrel. 25, Created)
01-0CT-2003 (TrEMBLrel. 25, Last sequence update)
01-0CT-2003 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein DKFZp686B18150.
Name=DKFZp686B18150;
                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 122; DB 2;
100.0%; Pred. No. 2.7e-10;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     749 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          HSSF; GOODS576; TEDR.

GO, GO:0005576; TEDR.

INTERPRO; IPRO06209; EGF like.

INTERPRO; IPRO00083; Fibrnctni.

INTERPRO; IPRO00162; FN TYPE_II.

Pfam; PF00040; fn1; 9.

Probom; P0000995; FN TYPE_II; 2.

SMART; SM00059; FN1; 9.

PROSITE; PS00022; EGF 1; UNKNOWN 1.

PROSITE; PS01253; FIBRONECTIN_1; 9.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 OOWERTYLGNALVCTCYGGSR 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    64 QQWERTYLGNALVCTCYGGSR 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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Q7Z391;
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Ansorge W., Krigger S., Regiert T., Rittmueller C., Schwager B.,
Ansorge W., Krigger S., Regiert T., Rittmueller C., Schwager B.,
Ansorge W., Krigger S., Regiert T., Rittmueller C., Schwager B.,
Submitted (ANG-2003) to the EMBL/GenBank/DDBJ databases.
BEMBL; BK640802; CAE45885.1; --
DR GO; GO:005576; CE45885.1; --
DR GO; GO:005576; C:extracellular; IEA.
InterPro; IPR00083; Fibrnchi.
DR InterPro; IPR00083; Fibrnchi.
DR InterPro; IPR00083; Fibrnchi.
DR InterPro; IPR00083; Fibrnchi.
DR InterPro; IPR000857; FW_III-like.
DR Fam; PF00040; fib.; 9.
Fram; PF00040; fib.; 9.
Fram; PF00040; fib.; 2.
DR Fam; PR00059; FN Type_II.
DR PRINTS; PR00059; FN Type_II.
DR PRINTS; PR00059; FN Type_II.
DR PRODOM; PR0059; FN Type_II.
DR PRODOM; PR0059; FN Type_II.
DR PROSTIE; PS00023; FN Type_II.
DR PROSTIE; PS00023; FIBRONECTIN_1: 9.
DR PROSTIE; PS00023; FIBRONECTIN_2: 2.
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686K139 (Hypothetical protein DKFZp686F219)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
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                                                                           Length 749;
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Hypothetical protein.
SEQUENCE 749 AA; 83524 MW; C8DDF97F3ED2F0DE CRC64;
                                                                     ; Score 122; DB 2;
; Pred. No. 6.2e-10;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 122; DB 2; 100.0%; Pred. No. 8.8e-10;
                                                                                                                                                                                                                                                                                                                                                                                      PRT; 1103 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Name=DKFZp686K139; Synonyms=DKFZp686F219;
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                                                                                                                                                                                                                      152 QQWERTYLGNALVCTCYGGSR 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 QOWERTYLGNALVCTCYGGSR 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
TISSUB=Human cervix;
The German Human cDNA Consortium;
                                                                                                                                                                                         1 OOWERTYLGNALVCTCYGGSR 21
                                                                           100.0%;
ilarity 100.0%;
Conservative 0
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                                                            Ouery Match
Best Local Similarity
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tes 21; Conserv
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                     Q6MZF4;
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd. Copyright

- protein search, using sw model OM protein November 11, 2005, 08:12:29; Search time 1.59216 Seconds (without alignments) 1269.066 Million cell updates/sec Run on:

122 1 QQWERTYLGNALVCTCYGGSR 21 US-09-581-651D-6 Title: Perfect score:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table: Sequence:

283416 segs, 96216763 residues Searched:

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

79:4 PIR Database :

1: pirl: * 2: pir2: * 3: pir3: * 4: pir4: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

CITMIMARTES

	Description	fibronectin precur	fibronectin precur	fibronectin - bovi	fibronectin - Afri	fibronectin - mous	pollen-specific pr	protein B0416.3 [i	nodulation protein	y4hP protein - Rhi	protein T1F9.8 (im	lichenan operon tr	D	excisionase - Stap	GASA4 - Arabidopsi	gibberellin-regula	glycoprotein - hum	nitrogen fixation	nitrogen fixation	cyanide insensitiv	adenosylmethionine	adenosylmethionine	30S ribosomal prot	sucrose cleavage p	complement factor	probable membrane	plastoquinol-plast	fibronectin - east	maltose transport	probable hydrolase
SUMMARIES	QI.	S14428	FNHU	FNBO	A43908	A49173	S22495	D89606	S34668	T10850	F96639	AG1422	A46688	XSBPL5	T49958	S60232	T41986	D34443	AD1988	T47274	H64641	A71873	C84323	T08928	NBMSH	AI0051	T31446	151279	H83927	F75263
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	* Query Match Length	2477	2386	2265	2481	103	554	210	265	552	774	638	655	354	106	106	280	300	300	335	436	439	98	409	1234	65	149	190	276	297
	Query Match	100.0	7.96	95.9	93.4	61.5	39.3	38.5	38.5	38.5	38.5	37.7	37.7	37.3	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.5	36.5	36.5	36.1	36.1	36.1	36.1	36.1
	Score	122	118	117	114	75	48	47	47	47	47	46	46	45.5	45	45	45	45	45	45	45	45	44.5	44.5	44.5	44	44	44	44	44
	Result No.	-	7	m	4	2	9	7	80	6	10.	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29

hypothetical prote apolipoprotein H-r complement factor	complement factor heamin storage sys hypothetical prote	hypothetical prote T-cell receptor be 185K secretory pro	laminin - Hydra vu conserved hypothet hypothetical prote	195 rc receptor al probable D-aminope probable transamin trp-asp repeat pro
F96586 H35068 A35068	D35069 AB0238 T47007	T22298 B28823 JQ0542	S57894 B69044 T45056	A34342 H95267 T04985 T38653
000	000	000	0000	0000
818 303 452	808 822 822	2810 135 160	171	250 345 426 507
36.1 35.7 35.7	35.7 35.7	35.2	23.55 25.55	35.22
43.5 43.5	43.5 63.5	43 43 43 63 63	4. 4. 4. U. U. U.	444
30 31 32	33 34 35	38 38 38	40 40	4 4 4 4 2 6 4 5

ALIGNMENTS

fibronectin precursor - rat

C.Species: Rattus norvegicus (Norway rat) C.Date: 28-Oct-1994 #sequence revision 28-Oct-1994 #text change 09-Jul-2004 C.Accession: S14428; S12455; A22319; S46203; S00459; A27252; I59049

R. Hymes, R.O.
submitted to the EMBL Data Library, July 1989
A; Reference number: 81428
A; Reference subbar: 81428
A; Residues: 1-247 cHYNA
A; Residues: 1-247 cHYNA
A; Residues: 1-247 cHYNA
A; Residues: 1-247 cHYNA
A; Cross-references: UNIPROT: P04937; EMBL: X15906; NID: 955163; PIDN: CAA34020.1; PID: 956164
B; Schwarzbauer, J.E.; Patel, R.S.; Fonda, D.; Hynes, R.O.
EMBO J. 6, 2573-2580, 1987
A; Title: Multiple sites of alternative splicing of the rat fibronectin gene transcript.
A; Reference number: \$12455; MUID: 88054951; PMID: 2445560
A; Accession: \$12455
A; Accession: sid sequence not shown

A;Molecule type: mRNA
A;Residues: 609-1810, Tr. 1812-2283 <SCH>
A;Cross-references: EMBL:X15906
A;Cross-references: EMBL:X15906
B;Cons-references: EMBL:X15906
B;Cons-references: EMBL:X15906
B;Cons-references: EMBL:X15906
B;Cons-references: EMBL:X15906
B;Cons-references: A single rat fibronectin gene generates three different mRNAs by alternative sp. A;Title: A single rat fibronectin gene generates three different mRNAs by alternative sp. A;Title: A single rat fibronectin gene generates three different mRNAs by alternative sp. A;Accession: A22319
A;Accession: A22319
A;Residues: 2052-2237 <TAM>

R.Falkenberg, C.; Enghild, J.J.; Thogereen, I.B.; Salvesen, G.; Akerstroem, B. Biochem. J. 301, 745-751, 1994
A;Title: Isolation and characterization of fibronectin-alpha(1)-microglobulin complex in A;Reference number: S46203; WUID:94330948; PMID:7519849

A; Accession: S46203

A; Status: preliminary
A; Molecule type: protein
B; Molecule type: protein
B; Schwarzbauer, J.E.; Hynes, R.O.
EMBO J. 6, 2565-2572, 1987
A; Title: Organization of the fibronectin gene provides evidence for exon shuffling durin
A; Reference number: S00459; MUID: 88054950; PMID: 3119323
A; Accession: S00459

A; Molecule type: DNA

A; Residues: 1-139;2382-2477 <PAT>
A; Residues: 1-139;2382-2477 <PAT>
A; Cross-references: EMBL: X05831
A; Cross-references: EMBL: X05831
A; Cross-references: EmBL: X05831
B; Schwarzbauer, J.E.; Tamkun, J.W.; Lemischka, I.R.; Hynes, R.O.
Cell 35, 421-431, 1983
A; Title: Three different fibronectin mRNAs arise by alternative splicing within the codi A; Reference number: A27252; MUID: 84082067; PMID: 6317187
A; Accession: A27252
A; Molecule type: mRNA

N

Page

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A;Cross references: UNIRROT:P02751; UNIPROT:Q14327; GB:M15801; NID:g182686; PIDN:AAA5337. R;Oldberg, A.; Ruoslahti, E. S., Distol. Chem. 251, 2113-2116, 1986
A;Title: Evolution of the fibronectin gene.
A;Reference number: A26284; MUID:86111901; PMID:3003095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: DNA
A; Residues: 1447-1540 < COLD>
A; Residues: 1447-1540 < COLD>
A; Residues: 1447-1540 < COLD>
A; Cross-references: GB: M12549; NID: 9182688
A; Mote: the authors translated the codon TTC for residue 1494 as Glu
R; Paolella, G.; Henchcliffe, C.; Sebastio, G.; Baralle, F.E.
Nucleic Acids Res. 16, 3545-3557, 1988
A; Title: Sequence analysis and in vivo expression show that alternative splicing of ED-B
A; Reference number: $00848; WUID: 88233940; PMID: 3375063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: DNA
A;Residues: 1594-1767, V',1769-1783 <PAO>
A;Residues: 1594-1767, V',1769-1783 (PAO>
A;Cross-references: EMBL:X0718; NID:g31402
A;Note: the authors translated the codon AAC for residue 1631 as Asp
R;Vibe-Pedersen, K.; Magnusson, S.; Baralle, F.E.
FRSB Lett. 207, 287-291, 1986
A;Title: Donor and acceptor splice signals within an exon of the human fibronectin gene:
A;Reference number: A24854; MUID:87030929; PMID:3770201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R.Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
Nucleic Acids Res. 12, 5853-5868, 1984
Aftitle: Human Libronectin. cell specific alternative mRNA splicing generates polypeptid. A;Reference number: A93529; MUID:84272258; PMID:6462919
A;Accession: A93529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rioldberg, A.; Linney, E.; Rucelahti, E.
T. Biol. Chem. 258, 10133-10166, 1983
A;Title: Molecular cloning and nucleotide sequence of a cDNA clone coding for the cell a.
A;Reference number: A21011; WUID:83290929; PMID:6688418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   carboxyl-terminal portion with ra
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A, Residues: 1-14, 'Q', 16-38 <GUT>
R, Kornblihtt, A.R.; Umezawa, K.; Vibe-Pedersen, K.; Baralle, F.E.
EMBO J. 4, 1755-1759, 1985
A, Title: Primary structure of human fibronectin: differential splicing may generate at
A, Reference number: A91008; MUID:85284965; PMID:2992939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cross-references: GB:K00055; NID:g182680; PIDN:AAA52459.1; PID:g182683
Bernard, M.P.; Kolbe, M.; Weil, D.; Chu, M.L.
lochemistry 24, 2698-2704, 1985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: GB:M10905; NID:g182696; PIDN:AAA52462.1; PID:g182697 R;Umezawa, K.; Kornblihtt, A.R.; Baralle, F.E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: GB:X04530; NID:g31436
R;Gutman, A.; Yamada, K.M.; Kornblihtt, A.
R;Gutman, A.; Yamada, K.M.; Bornblihtt, A.
R;Gutman, A.; Yamada, K.M.; Kornblihtt, A.
A;Title: Human fibronectin 18 synthesized as a pre-propolypeptide.
A;Reference number: A24476; MUID:87030890; PMID:3770189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Title: Human cellular fibronectin: comparison of the Reference number: A90495; MUID:85280409; PMID:2992573
A; Reference number: A26460; MUID:87175578; PMID:3031656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Accession: A24476
A;Status: not compared with conceptual translation
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A;Residues: 32-1344,1346-2080;2112-2386 <KOR>
A;Cross-references: GB:X02761
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Status: nucleic acid sequence not shown
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A;Residues: 973-2080;2112-2386 <KO2>
A;Cross-references: GB:X00739
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A,Residues: 1992-2147 <VIB>
                                                                                                              A; Molecule type: DNA
A; Residues: 1-49 < DEA>
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A, Residues: 1594-2386
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Filo85-1164/Domain: fibronectin type III repeat homology *CRN3E>
Filo85-1164/Domain: fibronectin type III repeat homology *CRN3E>
Filo85-1138/Domain: fibronectin type III repeat homology *CRN3E>
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Filo87-189/Domain: fibronectin type III repeat homology *CRN3E>
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Filo88-233F/Domain: fibronectin type I repeat homology *CRN3E>
Filo88-238F/Domain: fibronectin type I repeat homology *CRN3E>
Filo88-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Genetics:
C;Genetics:
C;Superfamily: fibronectin; fibronectin type I repeat homology; fibronectin type II repe
C;Superfamily: fibronectin; fibronectin; coll adheaion; collagen binding; disulfide bond; duplic;
C;Superfamily: signal sequence #status predicted <SIG>
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F;342-100main: fibronectin type I repeat homology <1F2>
F;360-3271/Domain: fibronectin type I repeat homology <1F2>
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F;361-599/Domain: fibronectin type II repeat homology <1F7>
F;361-599/Domain: fibronectin type III repeat homology <1F8>
F;361-599/Domain: fibronectin type III repeat
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Date: 27-Nov-1985 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004
Accession: A26460; A26284; S03917; A24854; A24476; A91008; A93529; A21011; A90495; A22
Dean, D.C.; Bowlus, C.L.; Bourgeois. S.
roc. Natl. Acad. SGi. U.S.A. 84, 1876-1880, 1987
Title: Cloning and analysis of the promoter region of the human fibronectin gene.
                                                 Odermatt, E.; Tamkun, J.W.; Hynes, R.O.
coc. Natl. Acad. Sci. U.S.A. 82, 6571-6575, 1985
/Title: Repeating modular structure of the fibronectin gene: Relationship to protein st
Reference number: IS9049; MUID:86016741; PMID:3863113
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                                                                                                                                                                                                                                                                                                                                                                                                                                          Residues: 1722-1810 <RES>
Cross-references: GB:M11750; NID:g204164; PIDN:AAA41170.1; PID:g554437
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
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Pred. No. 7.4e-10;
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Matches 21; Conservative
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A; Title:
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3, App 75, Ap Appli

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1137, Ap 28, Appl 1, Appli 360, App 206, App

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; LOCATION: (226)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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| Sequence 548, Application US/09925302
| Patent No. US20020044941A1
| GENERAL INFORMATION:
| APPLICANT: Rosen et al. |
| TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies |
| FILE REFERENCE: PA104 |
| CURRENT APPLICATION NUMBER: US/09/925,302 |
| CURRENT FILING DATE: 2001-08-10 |
| PRIOR APPLICATION NUMBER: PCT/US00/05918 |
| PRIOR FILING DATE: 1999-03-12 |
| NUMBER OF SEQ ID NOS: 896 |
| SEQ ID NO 548 |
| LENGTH: 231
US-10-236-392-4
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US-10-144-104
US-10-360-101-235
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US-10-488-758-9
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COCATION: (44)
OTHER INFORMATION: Xea equals any
NAME/KEY: SITE
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OTHER INFORMATION: Xaa equals
NAME/KEY: SITE
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OTHER INFORMATION: Xaa equals
NAME/KEY: SITE
 ORGANISM: Homo sapiens FEATURE:
 JS-09-925-302-548
 TYPE: PRT
  Sequence 548, App
Sequence 52, App
Sequence 52, App1
Sequence 52, App1
Sequence 154, App
Sequence 166, Ap
Sequence 1072, App
Sequence 166, App
                                                         November 11, 2005, 08:29:55; Search time 7.1098 Seconds (without alignments) 1235.843 Million cell updates/sec
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         GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-10-144-194A-52
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                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                       1867879 segs, 418409474 residues
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Maximum Match 100%
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OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
NAME/KEY: SITE
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OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
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                                                                                                                                                                                                                                                                                            APPLICANT: Rosen et al.

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PAA.04

CURRENT APPLICATION NUMBER: US/09/925,302

CURRENT FILING DATE: 2001-08-10

PRIOR APPLICATION WUMBER: PCT/US00/05918

PRIOR FILING DATE: 2000-03-08

PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 896

SOFTWARE: PAECHLIN Ver. 2.0

SEQ ID NO 548

LENGTH: 231
    Length 231;
                                              0; Indels
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Sequence 52, Application US/10144194A
Sequence 52, Application US/10144194A
Publication No. US20030215809A1
GENERAL HORMATION:
TILE OF INVENTION: Regulated Breast Cancer Genes
FILE REFERENCE: 30 103 R1
CURRENT PEDILICATION NUMBER: US/10/144,194A
CURRENT FILING DATE: 2002-06-12
NUMBER OF SEQ 1D NOS: 114
SOFTWARE: Patentin version 3.0
SEQ 1D NO 52
LENGTH: 463
Query Match
100.0%; Score 122; DB 9;
Best Local Similarity 100.0%; Pred. No. 4.1e-09;
Matches 21; Conservative 0; Mismatches 0;
                                                                                    ; Sequence 548, Application US/09925302; Publication No. US20030064072A9; GENERAL INFORMATION:
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens
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100.0%; Score 122; DB 15; Length 463;

Query Match

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Sequence 1066, Application US/10741600
; Publication No. US20050026169A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: MYCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF; FILE REFERENCE: CLO01499
; CURRENT APPLICATION NUMBER: US/10/741,600
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                        Gape
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLOO1500
CURRENT APPLICATION NUMBER: US/10/741,601
KURBER FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 26415
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 354
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                        Indele
                                                                                                                                                                                                                     gequence 52, Application US/10491566
Publication No. US2004024914A1
GENERAL INFORMATION:
APPLICANT: Origen Technologies Inc
TITLE OF INVENTION: Regulated Breast Cancer Genes
FILE REFERENCE: 3U 103 R1
CURRENT APPLICATION NUMBER: US/10/491,566
CURRENT APPLICATION NUMBER: 2004-04-05
NUMBER OF SEQ ID NOS: 188
SOFTWARE: Patentin version 3.1
SEQ ID NO 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 100.0%; Score 122; DB 16; Best Local Similarity 100.0%; Pred. No. 1.1e-08; Matches 21; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 122; DB 16;
Pred. No. 7.8e-09;
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Pred. No. 7.8e-09;
; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; Sequence 354, Application US/10741601; Publication No. US20040166519A1; GENERAL INFORMATION:
                                                                                                               99 OOWERTYLGNALVCTCYGGSR 119
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                                                                      21
  Best Local Similarity 100.0%; P:
Matches 21; Conservative 0;
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                                                                      1 QOWERTYLGNALVCTCYGGSR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-491-566-52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT
CORGANISM: Homo sapiens
US-10-741-601-354
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Sequence 14, Appl
Sequence 12, Appl
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 20, Appl
Sequence 20, Appl
Sequence 18675, A
Sequence 12, Appl
Sequence 12, Appl
Sequence 12, Appl
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Sequence 1, Appli
Sequence 1, Appli
Patent No. 5455158
Patent No. 5455158
Sequence 2, Appli
Sequence 2, Appli
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Sequence 4, Appli
Sequence 5307, Ap
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                                                                                 November 11, 2005, 08:22:00; Search time 2.22353 Seconds (without alignments) 705.019 Million cell updates/sec
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Sequence 14, 7
Sequence 12, 7
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(cgn2_6/ptodata/1/iaa/5A_COMB.pep:*

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(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*

(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*

(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-09-016-366A-12

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US-08-1351-326-2

US-08-142-449B-14

US-08-8136-854-12

US-08-8140-812-7

US-08-845-9

US-08-459-064B-7

US-08-459-064B-7

US-08-460-421A-7

PCT-US33-0090-7

US-09-9136-218-20

US-09-136-218-12

US-09-270-767-43364

US-09-270-767-43364

US-09-270-767-43364

US-09-270-16-218-17

US-09-136-218-17

US-09-136-218-17

US-09-136-218-17

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US-09-136-218-17
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US-08-153-799-16
US-08-283-857-1
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                                                                                                                                                                                                                                                          513545 segs, 74649064 residues
                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                        - protein search, using sw model
                                                                                                                                                                                1 QOWERTYLGNALVCTCYGGSR 21
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Gapop 10.0 , Gapext 0.5
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seq length: 200000000
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122
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Match Length DB
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                                                                                                                                                 Title:
Perfect score:
Sequence:
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Maximum DB
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No.
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14, Ap. 113, 3, 3, 113, 3, 3, 118, Ap. 118, Ap. 24, Ap. 24, Ap. 21, Ap. 112, Ap. 1		Са Ба
sequence s sequence sequence sequence sequence sequence sequence sequence s	ENDOMETRIOSIS	2386;
	<u>د</u> 0	i, Length 9; Indela 0; Indela
S-07-869-933-14 S-09-103-663-14 S-09-103-663-14 S-08-11-266B-18 S-08-91-266B-18 S-09-91-266B-18 S-09-91-266B-24 S-09-91-267B-24 S-09-91-267B-24 S-09-91-267B-24 S-09-91-267B-24 S-09-91-267B-21 S-09-31-35-51-50 S-09-51-399C-51-58 S-09-51-399C-51-58 S-09-51-399C-51-58 S-09-51-399C-51-58 S-09-51-399C-71-58 S-09-907-794A-12 S-09-905-12-5A-12	LIGNMENTS VITRO DIAGNOSIS 961,403	ches Care In
00 - 00 - 00 - 00 - 00 - 00 - 00 - 00		Score 122; Pred. No. 9 Mismatche 21 R 83 Geb
1 E 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4	28 28 RRD (OGENN .KE FOR IN US/09-25	.0%; Sc .0%; Po .0; October 10; October 10
22 22 22 22 22 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	US/C OLGE ERNA R, C HOLI HOLI HOD ONE ONE OO1 OO1 S S S S S S S S S S S S S S S S S S S	1000 ative 1001 IALVCT IALVCT INCT INCT INCT INCT INCT INCT INCT IN
₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	3-1 Application US/0 F08634 FPCRMATION: HE-STUMPP, HOLGE: HAENDLER, BERNAR; KREFT, BERTHOLT: WINTERHAGER, EL: FREDIDON: SCOTTI, SIMONE: RECOTTI, SIMONE: RECOTTI, SIMONE: RECOTTI, SIMONE: RECOTTI, SIMONE: RECOTTI, SIMONE: SCOTTI, SIMONE: SCOTTI, SIMONE: SCOTTI, SIMONE: SCOTTI, SIMONE: FRENCE: SCOTTI, SIMONE: SCOTTI, SIMONE: 10 2386 FRENCE: SCOTI-1799 FRENCE: COII-1799 FRENCE: SCOII-1799 FREN	I Similarity 21, Conserv 21, Conserv 1 QOWERTYLGA 1 QOWERTYLGA 1 33 QOWERTYLGA 1 APD Cat 1 APD Cat 1 APD Cat 276683 INFORMATION: NAT: Balland NAT: Ballan
	SULT 1 -09-961-403-1 Sequence 1, Appli Batent No. 678015 GENERAL INFORMATI APPLICANT: HE-ST APPLICANT: KRAEF APPLICANT: KRAEF APPLICANT: KRAEF APPLICANT: REGIONATI APPLICANT: REGIONATI APPLICANT: REGIONATI APPLICANT: REGIONATI APPLICANT: REGIONATI APPLICANT: REGIONATI TILIE OF INVENTI CURRENT APPLICAT CURRENT APPLICAT CURRENT APPLICAT CURRENT APPLICAT CURRENT PILING D SOFTWARE: PATENT SEQ ID NO 1 LENGTH: 2386 TYPE: PATENT ORGANISM: HOMO ORGANISM: HOMO	ry Match t Local Sim ches 21; 1 QQ 1 1 Q
2 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	RESULT 1 US-09-961- Sequence Patent RESULCA RAPPLICA APPLICA A	Query Matches Qy Qy Db RESULT 2 US-08-153-153-153-154-154-154-154-154-154-154-154-154-154

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GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION:
TITLE OF INVENTION:
CODING THEREFOR AND USES THEREOF
NUMBER OF SEQUENCES:
CORRESPONDENCE ADDRESS:
ADDRESSER:
A
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                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/283,857
FILING DATE: U1-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US 07/714,134
PILING DATE: 14-JUN-1991
ATPONEY! AGENT INPOMBATION:
NAME: BROWDY, ROGER L.
REGISTRATION NUMBER: 25,618
REGISTRATION NUMBER: 25,618
REGISTRATION NUMBER: 25,618
TELERROCK-DOCKET NUMBER: 20.D=1A
TELERROCK OF UNBER: 20.D=1
TELERAL 202-737-3528
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2344 smino acids
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STREET. 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICALLC.
PILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/283,857
FILING DATE: 01-AUG-1994
ATTORNEY AGENT INFORMATION:
NAME: BROWDY, ROGET I.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: GOLD=1A P/
TELECOMMUNICATION INFORMATION:
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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INFORMATION FOR SEQ ID NO: 1: SEQUENCE CHARACTERISTICS:
LENGTH: 2324 amino acida
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TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: peptide US-08-283-857-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              amino acid
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GENERAL INFORMATION:

APPLICANT: ROSTAGNO, Agueda A.

APPLICANT: RANON, Martin

APPLICANT: CAMPBELL, Iain D.

APPLICANT: WILLIAMS, Michael, J.

TITLE OF INVENTION: FIBRONECTIN FIBRIN-BINDING PEPTIDES, DNA

TITLE OF INVENTION: CODING THEREFOR AND USERS THEREOF

NUMBER OF SEQUENCES:

ADDRESSEE: BROWDY AND NEIMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 96.7%; Score 118; DB 1; Length 2231; Best Local Similarity 95.2%; Pred. No. 3.3e-08; Matches 20; Conservative 0; Mismatches 1; Indels
MEDIUM TYPE: Floppy disk
COMBUTER: IBM PC compatible
OPERATING SYSTEM: PC_DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153,799
FILING DATE:
CLASSIFICATION DATA:
APPLICATION NUMBER: US 07/847975
FILING DATE: 06-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/847975
FILING DATE: 29-APR-1989
PRIOR APPLICATION NUMBER: PCT/GB90/00650
FILING DATE: 26-APR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/775952
FILING DATE: 29-OCT-1991
ATPORNEY/AGENT INFORMATION:
APPLICATION NUMBER: US 07/775952
FILING DATE: 29-OCT-1991
ATPORNEY/AGENT INFORMATION:
APPLICATION NUMBER: 24864
REGISTRATION NUMBER: 24864
REGISTRATION NUMBER: 24864
REGISTRATION NUMBER: 24864
RECISTRATION NUMBER: 24864
RECISTRATION NUMBER: 24864
RECISTRATION NUMBER: 24864
REPERENCE/DOCKET NUMBER: 24864
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RECISTRATION NUMBER: 24864
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; OTHER INPORMATION: /note= "Human fibronectin"
193-08-153-799-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: ... 419 Seventh Street, N.W., Suite 300 CITY: Washington STATE: D.C.
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Patent No. 5792742
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TELEEX: 219484
INPORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 2231 amino acids
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HYPOTHETICAL: NO
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 20004
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
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RESULT 3

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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                        OM protein - protein search, using sw model
                   Copyright
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November 11, 2005, 07:55:44; Search time 7.76863 Seconds (without alignments) 1045.483 Million cell updates/sec Run on:

US-09-581-651D-6 Title: Perfect s

122 1 QOWERTYLGNALVCTCYGGSR 21 score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692 segs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A Geneseq 16Dec04:*

1: geneseqp1980s:*

2: geneseqp2000s:*

4: geneseqp2001s:* geneseqp2002s: * geneseqp2003as: * geneseqp2003bs: * geneseqp2004s: * •• Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Aay28903 MSF 1-alp	Aab58210 Lung canc	Abr58303 BCU0770 p	Adq39403 Human myo	6 Human	9 Amino	9 Human	Adq39409 Human myo	Aay28901 Human mig	Human	Abg22275 Novel hum	Adp30365 Human sec	Adr66462 Human pro	Adr66120 Human pro	9 Human	Adn95950 Human NOV	7 Human	Abr40124 Human cel	-	7 Human	Abr42588 Human fib	Aam38646 Human pol	Aam38649 Human pol	Abr58335 NM 00202	Adp65196 Human fib
SOMETHE	ID	AAY28903	AAB58210	ABR58303	ADQ39403	ADR67316	ADS17489	ADR97658	ADQ39409	AAY28901	ADQ39406	ABG22275	ADP30365	ADR66462	ADR66120	ABO01289	ADN95950	AAM38647	ABR40124	ADQ39412	AAE37107	ABR42588	AAM38646	AAM38649	ABR58335	ADP65196
	DB	8	٣	9	æ	80	œ	œ	8	N	80	4	8	80	80	9	80	4	9	ω	9	9	4	4	9	7
	Length	21	231	463	642	642	642	642	657	099	984	1173	1223	2182	2182	2220	2220	2265	2266	2296	2320	2320	2330	2355	2355	ß
d	Ouery Match	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Score	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122	122
	Result No.	-	7	3	4	ß	9	7	80	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Adg89560 Human fib Ad192160 Fibronect Ado55175 Protein #	Adq26085 Fibronect Adq29668 Human col Adq39415 Human myo	Human Human Human	Aao17353 Human fib Abr81866 Human fib	Human Protei	Adq39408 Human myo Adr99200 Fibronect Aab50377 Human fib	Aam40434 Human pol Aam40435 Human pol Aam40433 Human pol
ADG89560 ADL92160 ADO55175	ADQ2668 ADQ29668 ADQ39415	ADQ39404 ADR67315 AAM38648	AAO17353 ABR81866	ADD18/70 ADD55174	ADQ39408 ADR99200 AABS0377	AAM40434 AAM40435 AAM40433
	2355 8 2355 8 2355 8				2386 8 2386 8 2446 3	2447 4 2447 4 2447 4
100.0		100.0				
122	122	122	122	122	122 122 122	122 122 122
26 27 28	30 31 31	3 3 3 8 4 8 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	36	7 8 6 3 6 6	0 4 4 0 1 2	4 4 4 6 4 4 5

ALIGNMENTS

RESULT 1

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Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin.
    AAY28903 standard; peptide; 21 AA.
                                    MSF 1-alpha peptide epitope.
                         (first entry)
                                                                   Homo sapiens
                                                                            WO9931233-A1
                         21-SEP-1999
                                                                                       24-JUN-1999.
                                                             Synthetic.
               AAY28903;
AAY28903
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98WO-GB003766 97GB-00026539 16-DEC-1997; 15-DEC-1998;

WPI; 1999-430039/36. Schor AM; Schor SL,

(UYDU-) UNIV DUNDEE.

Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.

Claim 18; Page 57; 86pp; English.

The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. Sequences AAY28902-906 represent peptide epitopes of MSF against which monoclonal antibodies that are specific to MSF and do not cross-react with fibronectin are raised

Sequence 21 AA;

Length 21; Score 122; DB 2; Pred. No. 1.8e-09; 100.0%; Query Match Best Local Similarity 92 QQWERTYLGNALVCTCYGGSR 112

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CC associated proteins represented in AAB58106 - AAB58548. Lung cancer associated proteins represented in AAB58106 - AAB58548. Lung cancer casociated proteins and polymucleotide sequences, their agonists, and antagonists may have neuroprotective; cytostatic; cardioactive; antagonists may have neuroprotective; cytostatic; cardioactive; communomodulatory; muscular active general; vulnerary; gastrointestinal communomodulatory; muscular active; gynecological; or antibacterial activity. The invention also includes antibodies specific for the protein cor polymucleotide sequences. The lung cancer associated polymucleotide sequences may be used for detection of lung cancer, chromosome cor identification, as offromosome markers, and for numerous other diagnostic or research purposes. The proteins may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, and proliferative disorders. The proteins may also be used in the treatment of wounds and infectious diseases.

Communomodulatory and community of the indeptide AAB58549 are consecuted the invention for the identification and
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                                                                                                                                                                                                                                              cardicactive; immunomodulatory; muscular active; vulnerary; agastrointestinal; nephrotropic; antilinfective; gynecological; antibacterial; diagnosis; neural disorder; immune disorder; reproductive; proliferative disorder; wound healing; infectious disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lung cancer associated gene sequences, referred to as lung cancer antigens, useful for treatment, prevention, and diagnosis of disorders
 Gaps
                                                                                                                                                                                                                                 Human; lung cancer associated protein; neuroprotective; cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 231;
 Indels
                                                                                                                                                                                                        Lung cancer associated polypeptide sequence SEQ ID 548.
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100.0%; Pred. No. 1.8e-08;
tive 0; Mismatches 0;
 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 11; Page 1041-1042; 1425pp; English.
                                                                                                                        AAB58210 standard; protein; 231 AA
                            7
                                                   21
                                                    1 OOWERTYLGNALVCTCYGGSR
                            1 QOWERTYLGNALVCTCYGGSR
                                                                                                                                                                                                                                                                                                                                                                                                   08-MAR-2000; 2000WO-US005918.
                                                                                                                                                                                                                                                                                                                                                                                                                             99US-0124270P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC.
(ROSE/) ROSEN C A.
                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 100.
Best Local Similarity 100.
Matches 21; Conservative
 21; Conservative
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N-PSDB; AAF18086.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              such as lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 231 AA;
                                                                                                                                                                                                                                                                                                                                             WO200055180-A2
                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                             12-MAR-1999;
                                                                                                                                                                              14-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                        21-SEP-2000,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ruben SM;
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 Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated human differentially-regulated breast cancer polynucleotide and polypeptide, useful for diagnosing, staging, prognosticating, preventing and/or treating diseases and conditions relating to breast cancer.
                                                                                                                                                                                                                                         Breast cancer; cytostatic; gene therapy; antisense therapy; regulated; drug discovery; clinical medicine; forensic medicine; chromosome 2q35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 463;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 6; SEQ ID NO 52; 127pp + Sequence Listing; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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Pred. No. 3.5e-08;
Mismatches 0;
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                                          ABR58303 standard; protein; 463 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       119
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kovacs KF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (ORIG-) ORIGENE TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-OCT-2001; 2001US-0326526P.
14-MAY-2002; 2002US-00144194.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-OCT-2002; 2002WO-US031287
                                                                                                                                                                                              52.
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                                                                                                                                               08-JUL-2003 (first entry)
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                                                                                                                                                                                              BCU0770 protein #SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Li X, Fan W,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-381623/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 463 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; ACC72037
                                                                                                                                                                                                                                                                                                                                                                             WO2003029421-A2
                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                               ABR58303;
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RESULT 3
                       ABR58303
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Gaps

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Indels

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QQWERTYLGNALVCTCYGGSR

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Bukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases I. to 239)

1 (bases I. to 239)

1 (bases I. to 239)

Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., Soares,F., Brentani,R.R., Reis,L.F., G. Soares,F., Brentani,R.R., Reis,L.F., G. Soures, S.J. and Simpson,A.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST 22-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
                                                                                                                                                                                                                 DKFZP686K
DKFZP686O
DKFZP686E
DKFZP686E
            AU140826
QV4-BN026
B0777D11-
B0770C09-
QV0-GN021
                                                                                                                                                                                                                                                                                                                                                       DKFZp686M
DKFZp686G
                                                                   A0217B07-
QV0-GN021
QV0-GN021
QV0-GN021
170006001
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DKFZD686K
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170006000
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DKFZp686L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  עבי בעד 22 באד בארונו איזייי באד 22 ב-NOV-200 CM2-ET0016-310500-206-£05 ET0016 Homo sapiens cDNA, mRNA sequence.
BF358738
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Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 expressed
           AU140826

CF166406

CF166406

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CF896496

CF896496

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CR33233486

AL710256

BX473823

BX473823

BX473863

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the human transcriptome with ORF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALIGNMENTS
                                                                                                                                                                                                        BX473863
BX473866
AL699665
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AL712567
BX508450
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BX473642
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BX473828
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shotgun sequencing of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tel: +55-11-2704922
Fax: +55-11-2707001
Homo sapiens
                                  100.0
100.0
100.0
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RESULT 1
BP358738/c
LOCUS
BDEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
υ
                                                                                                                                                                                                                                                                                                                                                                                        Command line parameters:
-MODELeframe+_pzn.model -DEV=xlh
-MODELeframe+_pzn.model -DEV=xlh
-De_|cgn2_1/USPTO_spool h/US09581651/runat_07112005_092223_28789/app_query.fasta_1.1834
-De_|cgn2_1/USPTO_spool h/US09581651/runat_07112005_092223_28789/app_query.fasta_1.1834
-De_|cgn2_1/USPTO_spool h/US09581651/runat_07112005_092223_28789-LMODE=LOCAL
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
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-NO_MMAP -LARGEDUERY -NGG_SCORES=0 -MAIT -DSPBLOCK=100 -LONGIAG
-DBV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPBEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DBLEXT=7
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BF988947 IL5-GN017
AW068290 CN2OCO7.9
CL212775 G050808 G
AW068245 CN23907.9
BE817493 QV4-BN026
CB704303 AMGNNUC:C
BF751799 RC3-BN042
CG536337 OST124189
                                                                               November 11, 2005, 08:46:42; Search time 436.745 Seconds (without alignments) 1830.243 Million cell updates/sec
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Compugen Ltd.
                                                          frame_plus_p2n model
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           GenCore version (c) 1993 - 2005
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Maximum Match 100%
Listing first 45 summaries
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                                                         nucleic search, using
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Maximum DB seq length: 200000000
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1. (Dases 1 to 292)

2. Janes Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G. H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deoliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.

Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

L. Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/mol type="mRNA"
/db xref="taxon:9606"
/dev stage="Adult"
/clone lib="ET0016"
/note="Yogan: lung tumor; Vector: pucl8; Site_1: Smal;
/note="Yogan: lung tumor; Vector: pucl8; Site_1: pucl8; Note Info
/note="Yogan: lung tumor; Vector: pucl8; Note Info
/note="Yogan: lung tumor; Vecto
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM2&t2=CM2-ET0016-310500-206-f05&t3=2000-05-31&t4=1)
Seg primer: puc 18 forward
High quality sequence start: 10
High quality sequence stop: 239.
Location/Qualifiers
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Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=IL5&t2=IL5-GN0179-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                233
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Mismatches:
Indels:
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Best Local Similarity:
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AUTHORS
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BF988947
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AW068290 305 bp mRNA linear EST 20-JUN-2002 cn20c07.yl Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn20c07 random, mRNA sequence.
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1 (base 1 to 305)
Jia,L.B., Young,M.F., Touchman,J.W., Bouffard,G.G.,
Becketrom-Sternberg,S.M., Green,E.D., Powell,J.I., Yang,L.M.,
Robey, P.G., Hotchkiss,R.N. and Francomano,C.A.
SGAP: The Skeletal Genome Anatomy Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Libin Jia
Medical Genetics Branch
National Human Genome Research Institute
10/10c101, 9000 Rockville Pike, Bethesda, MD 20892-1267, USA
Tal: 301-402-4877
Fax: 301-496-7157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: libin@helix.nih.gov

DNA Sequencing and analyses by National Institutes of Health
Intramural Sequencing Center (NISC).

Plate: 20 column: 07.

Seq primer: M13RPL reverse primer (ABI).

Location/Qualifiers
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Mismatches:
Indels:
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Matches:
181000-176-c08&t3=2000-10-18&t4=1)
Seg primer: puc 18 forward
High quality sequence stop: 291.
Location/Qualifiers
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AUTHORS
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SOURCE
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Sequence 799, App
Sequence 105, App
Sequence 105, App
Sequence 105, App
Sequence 238, App
Sequence 70, Appl
Sequence 238, App
Sequence 244, App
Sequence 21, Appl
Sequence 24, Appl
Sequence 246, Appl
Sequence 249, Appl
Sequence 249, Appl
Sequence 249, Appl
Sequence 249, Appl
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Sequence 799, App
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Batent No. US20020102543A1

GENERAL INFORMATION:
APPLICANT: Friedrich, Glenn
APPLICANT: Zambrowicz, Brian
APPLICANT: Zambrowicz, Brian
APPLICANT: Sanda, Arthur T.
TITLE OF INVENTION: No. US20020102543A1e1 Mutated Mammalian Cells and
TITLE OF INVENTION: Animals
FILE REFERENCE: LEX.0102-USA
CURRENT APPLICATION NUMBER: US/09/728,445
CURRENT FILING DATE: 2000-11-30
PRIOR APPLICATION NUMBER: US 60/168,358
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                                                                                                                                   Query
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-MODEL=frame+ plr. model - DEV=Xlh
-MODEL=frame+ plr. model - DEV=Xlh
-G-CGRZ 1/USPTO spool h/US09581651/runat_07112005_092226_28867/app_query.fasta_1.1834
-Q-CGRZ 1/USPTO spool h/US09581651/runat_07112005_092226_28867/app_query.fasta_1.1834
-DE-Published Applications NA -QFMT=fastap_-SUPFIX=plo.mpb - MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 - UNITS=bits -START=1 - END=-1 - MATRIX=blosum62
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-AALGN=15 - MODE=LOCAL - OUTFMT=pct - NORM=ext - HEAPSIZE=500 - MINLEN=0
-MAXLEN=200000000 - USER=US09581651 @CGN 1 1 1041 @runat_07112005 09226_28867
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-LONGLOG - DEV TIMEOTT=120 - WARN TIMEOUT=30 - THREADS=1 - XGAPEXT=0.5
-FGAPOP=6 - FGAPEXT=7 - YGAPOP=10 - YGAPEXT=0.5 - DELOP=6 - DELEXT=7
                                                                                                                            November 11, 2005, 15:20:41; Search time 107.827 Seconds (without alignments) 1610.594 Million cell updates/sec
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1: /cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.eeq:*
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4: /cgn2_6/ptodata/1/pubpna/USO6_NEW_PUB.eeq:*
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8: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.eeq:*
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13: /cgn2_6/ptodata/1/pubpna/USIOP_PUBCOMB.eeq:*
15: /cgn2_6/ptodata/1/pubpna/USIOP_PUBCOMB.eeq:*
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  GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                      nucleic search, using frame_plus_p2n model
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Maximum Match 100%
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Maximum DB seq length: 200000000
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Perfect score:
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; Fublication No. US20050186677A1
; General INFORMATION:
GENERAL INFORMATION:
APPLICANT: Friedrich, Glenn
APPLICANT: Sands, Arthur T.
TITLE OF INVENTION: Novel Wutated Mammalian Cells and Animals
FILE REFERENCE: LEX-0266-USA
CURRENT APPLICATION NUMBER: US/10/964,549
CURRENT APPLICATION NUMBER: US/09/750,456
FRIOR PILING DATE: 2004-10-13
PRIOR FILING DATE: 2000-11-28
PRIOR FILING DATE: 2000-11-28
PRIOR PILING DATE: 1999-12-01
NUMBER OF SEQ ID NOS: 891
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 799
LENGTH: 407
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PRIOR FILING DATE: 1999-12-01
NUMBER OF SEQ ID NOS: 891
SOFTWARE: PastSEQ for Windows Version 4.0
SEQ ID NO 799
LENGTH: 407
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                                                                                                                         NAME/KEY: misc_feature

LOCATION: (1)...(407)

CTHER INFORMATION: n = A,T,C or G

US-09-728-445-799
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OTHER INFORMATION: n = A,T,C or G
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ORGANISM: Mus musculus
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US-09-925-302-105

Sequence 105, Application US/09925302

Sequence 105, Application US/09925302

Sequence 105, Application US/09925302

Sequence 105, Application US/09925302

SEQUENCE INCORMATION: Nucleic Acids, Proteins and Antibodies

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA104

CURRENT APPLICATION NUMBER: US/09/925,302

CURRENT FILING DATE: 2001-08-10

PRIOR FILING DATE: 2000-03-08

PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 896

SOFTWARE: Patentin Ver. 2.0

LENGTH: 867
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APPLICANT: ROSE et al.

TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REPERENCE: PALO4

CURRENT APPLICATION NUMBER: US/09/925,302

CURRENT FILING DATE: 2001-08-10

PRIOR PILING DATE: 2000-03-08

PRIOR PILING DATE: 1999-03-12

NUMBER: OF 2000-03-08

PRIOR FILING DATE: 1999-03-12

NUMBER: PRIOR PILING DATE: 1999-03-12
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ORGANISM: Homo sapiens
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Sequence 347, App
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Sequence 347, App
Sequence 137, App
Sequence 252, App
Sequence 220, App
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Patent No. 6682888

GENERAL INFORMATION:

APPLICANT: Loring, Jeanne F.

APPLICANT: Loring, Jeanne F.

APPLICANT: Edwards, Carla M.

TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE

FILE REPERENCE: PA-0024 US

CURRENT APPLICATION NUMBER: US/09/566,921

CURRENT FILING DATE: 2000-05-05

NUMBER: PERL PROGram

SEQ ID NO 135

LENGTH: 8044
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OTHER INFORMATION: Incyte ID No. 6682888 427813.14
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US-09-551-621-347
US-09-551-621-347
US-09-318-5252
US-09-318-6313-252
US-09-215-681-252
US-09-216-003A-252
US-08-142-4498-5
US-08-142-4498-5
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US-09-215-681-220
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-MODEL=frame+ pl. model - DEV=xlh
-MODEL=frame+ pl. model - DEV=xlh
-G-Cgn2 1/USPTO spool 1 - DEV=xlh
-G-Cgn2 1/USPTO spool 1 - DEV=xlh
-G-Cgn2 1/USPTO spool 1 - DEV=xlh
-DE-ISBUEd Patents NA - GPNT=fastap - SUFPTX=pl2n.rni - MINNATCH=0.1 - LOOPCL=0
-LOOPEXT=0 - UNITS=bits - START=1 - END=-1 - MATRIX=blosum62 - TRANS=human40.cdi
-LIST=45 - DOCALIGN=200 - THR_SCORE=pct - THR_MAX=100 - THR_MIN=0 - ALIGN=15
-MODE=LOCAL - OUTFMT=pcc - NORM=ext - HEAPSIZE=500 - MINLEN=0 - MAXLEN=200000000
-USRE=USO9581651 @CGN 1 1 187 @runat 07112005 092224 28801 - NCPU=6 - ICPU=3
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-DEV TIMEOUT=120 - WARN TIMEOUT=30 - THREADS=1 - XGAPDP=10 - XGAPBEXT=0.5 - FGAPOP=6
-FGAPEXT=7 - YGAPOP=10 - YGAPOP=6 - DELDP=6 - DELDP=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 135, App
Sequence 38, Appl
Sequence 1289, Ap
Sequence 6, Appli
Sequence 16, Appl
Sequence 16, Appl
Patent No. 5455158
Sequence 1, Appli
Sequence 1, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 347, App
Sequence 347, App
                                                                                                                                                     November 11, 2005, 08:49:16; Search time 21.1373 Seconds (without alignments) 1625.652 Million cell updates/sec
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/cgn2_6/ptodata/1/ina/SB_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
                          GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                 frame_plus_p2n model
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US-09-220-132-38
US-09-023-655-1289
PCT-US95-09819-6
US-08-259-569-16
US-08-826-885-16
5455158-2
5455158-2
US-08-551-356-1
PCT-US93-1287-1
US-09-389-681-347
US-09-20-4058-347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1202784 segs, 818138359 residues
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Maximum Match 100%
Listing first 45 summaries
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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                                                                                                                 nucleic search, using
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length: 2000000000
                                                                                                                                                                                                                                                        US-09-581-651D-6
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Match Length DB
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Score

Result

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Database

1118 1118 1118 1118 1118 1118 1118

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Minimum DB seq Maximum DB seq

Total number

Searched:

Title: Perfect score:

Sequence:

protein

Run on:

Scoring table:

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107 caacagregaagcegaccraccraegraargrerregringracrigirargaaggaagc 166
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:

GENERAL INFORMATION:

TITLE OF INVENTION: CODING THEREFOR AND USES THEREOF

TITLE OF INVENTION: CODING THEREFOR AND USES THEREOF

NUMBER OF SEQUENCES:

CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington

STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 2000 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
APPLICATION NUMBER: PCT/US95/09819
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7680
20
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:
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                                                      CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: 94,071
REFERENCE/DOCKET NUMBER: PA-0001 US
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1289:
SEQUENCE CHARACTERISTICS:
LENGTH: 7680 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
STRANDENNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/283,857
FILING DATE: 01-AUG-1994
ATONNEY AGENT INFORMATION:
NAME: BROWDY, ROGET L.
REGISTRATION NUMBER: 25,618
REFERNCE/DOCKET NUMBER: GOLD-1A PCT
TELECOMMUNICATION INPORMATION:
TELEPHNE: 202-628-5197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GOLD=1A PCT
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                              LIBRARY: GENBANK
CLONE: 931396
US-09-023-655-1289
                                                                                                                                                                                                                                                                                                                                         linear
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Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: line
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                                                                                                                                   Sequence 36, Application US/09220132

Sequence 36, Application US/09220132

Sequence 36, Application US/09220132

Setent No. 6506607

GENERAL INFORMATION:

APPLICANT: Shyjan, Andrew W.

TITLE OF INVENTION: WETHODS AND COMPOSITONS FOR THE IDENTIFICATION AND ASSESSMENT

TITLE OF INVENTION: WETHODS AND COMPOSITONS FOR THE DIAGNOSIS OF PROSTATE CANCE

FILE REFERENCE: 07334-074001

CURRENT APPLICATION NUMBER: US 60/079,303

PRIOR APPLICATION NUMBER: US 60/079,303

PRIOR APPLICATION NUMBER: US 60/068,821

PRIOR PILING DATE: 1997-12-24

NUMBER OF SEQ ID NOS: 191

SEQ ID NO 38

LENGTH: 7679
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1289, Application US/09023655
; Sequence 1289, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
    APPLICANT: Cocks Benjamin G.
    APPLICANT: Geffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS: 1508
; CORRESPONDENCE ADDRESS: 1008
; STREET: 3174 PORTER DRIVE
; STREET: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 107 CAACAGTGGGAGCGACCTACCTAGGTAATGTGTTGGTTTGTACTTGTTATGGAGGAAGC 166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 20
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COMPUTER READABLE FORM:
MEDLUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
PILING DATE: HEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
Conservative:
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Indels:
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118.00
95.24%
95.24%
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      167 CGA 169
                                                                    515 CGA 517
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                              21 Arg 21
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US-09-023-655-1289
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US-09-220-132-38
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Run on:

Sequence:

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Adr67201 Human bia Add3855 Human SNP Adg3851 Human SNP Adg3851 Human SNP Adg38578 Human SNP Adg38578 Human GDN Adr65953 Human GDN Adr65953 Human Dr0 Adg3858 Human Cabn Adg3858 Human Cabn Adg3858 Human SNP Adg3859 Human SNP Adg3859 Human SNP Adg3856 Human SNP Adg3856 Human DNA Adg3857 Human DNA Adg3857 Human DNA Adg3859 Human SNP Adg38
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mouse; gene trapped sequence; GTS; functional genomic analysis; phage display system; gene chip; temporal gene expression; tissue specific gene expression; antisense inhibition; gene targeting; development disorder; cell differentiation disorder; aging; cancer; autoimmune disease; lupus; inflammatory disorder; skin disorder; degenerative disorder; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel murine polynucleotide isolated using gene trap technology #799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALIGNMENTS
                                        ADG38581
AAS86462
ADP29134
ADC72037
ADG38578
ADG38578
ADG86637
ADG86637
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-NOV-2002 (first entry)
 (FRIE/) FRIBDRICH G. (ZAMB/) ZAMBROWICZ B.
US2002102543-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-DEC-1999;
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ABS69736;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 1
                           Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-Gof-cgn2_1/USFPO ppool | h/USOS9151/runat_07112005_09222_28772/app_query.fasta_1.1834
-Gof-cgn2_1/USFPO appool | h/USOS9151/runat_07112005_09222_28772/app_query.fasta_1.1834
-DB=N Geneseq -QFWT=fastap -SUFFIX=p2n.rng -MINMATGH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-UNITS=bits -START=1 -END=-1 -MATRIX=51000000000
-USFR=US09581651 @CGN 1 1 1052 @runat 07112005_092222_28772 -NOFU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAFEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Abse69736 Novel mur
Aaf18086 Lung canc
Ads17488 Nucleotid
Adr97657 Human fib
Add18477 Human pro
                                                                                               November 11, 2005, 08:30:56; Search time 68.8471 Seconds (without alignments) 1805.663 Million cell updates/sec
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               GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                       frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                   of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                        4390206 segs, 2959870667 residues
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AAF18086
ADS17488
ADR97657
ADD18477
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Maximum Match 100%
Listing first 45 summaries
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Kgapop 10.0 , Ygapext (
Ygapop 10.0 , Ygapext (
Fgapop 6.0 , Fgapext Delop 6.0 , Delext :
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geneseqn2001as:*
geneseqn2001bs:*
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genesean2004as:*
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geneseqn2003cs:*
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geneseqn1980s:*
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                                                                   nucleic search, using
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length: 2000000000
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                           Copyright
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                                                                                                                                                                                                                                                                                    The invention describes an isolated murine polynucleotide (1) comprising a contiguous stretch of at least 60 nucleotides of one of 265-677 and leaded 891 ownlesh gene trapped sequences (GTSB) (S), given in the specification. The novel genes and development of new therapeutic and diagnostic agents and methods. (I) is useful for identifying the coding regions of the murine genome, to isolate cDNAs, genomic clones, or full-length genes/polynucleotides or homologues, heterologues, paralogues, or cythologues that are capable of hybridising to one or more of the GTSs under stringent conditions. (I) can be incorporated into a phage display system that can be used to screen for proteins, or other ligands, that are capable of binding an amino acid sequence encoded by an oligonucleotide or polynucleotide sequence in at least one of the TS sequences. (I) is useful in addressable arrays, such as gene chips, to identify and characterise temporal and tissue specific gene expression, coidentify and characterise temporal and tissue specific gene expression, coidentify and characterise temporal and tissue specific gene expression, coidentify and characterise temporal and coinces and for genetic conjugations such as antisense inhibition and gene targeting. Decreasing the level of expression of (I) and/or down regulating the activity of peptides or proteins encoded by (I) is useful for treating development and cell differentiation disorders, aging, cancer, autoimmune disease, land and an unine cDNA isolated using gene trap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; lung cancer associated protein; neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular active; vulnerary; gastrointestinal; nephrotropic; antiinfective; gynecological; antibacterial; diagnosis; neural disorder; immune disorder; reproductive; proliferative disorder; wound healing; infectious disease; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 283 CAĞCAĞTGGĞAACGGACCTACCTAGGCAACGCCCTGGTTTGTACCTGCTATGGAGGAAGC 342
                                                                                                                               Novel murine polynucleotides that individually identify novel genes into which a retroviral gene trap vector has integrated, useful in genomic analysis and in discovery, development of therapeutic and diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lung cancer associated polynucleotide sequence SEQ ID 105.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             82 A; 114 C; 131 G; 74 T; 0 U; 6 Other;
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                                                                                                                                                                                                                                                   Claim 1; Page 264; 296pp; English
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                                                                                         WPI; 2002-690598/74
(SAND/) SANDS A T.
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Best Local Similarity:
Query Match:
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                                               Friedrich G,
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à 셤 ò 엄

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Polymucleotide sequences AAF17982 - AAF18424 encode human lung cancer associated proteins are persented in AAB58106 - AAB58548. Lung cancer associated proteins and polymucleotide sequences, their agonists, and antagonists may have neuroprotective; cytostatic; cardioactive; and cantagonists may have neuroprotective; cytostatic; cardioactive; and communomodulatory; muscular active general; vulnerary; gastrointestinal general; nephrotropic; antiinfective; gynecological; or antibacterial cetivity. The invention also includes antibodies specific for the protein or polymucleotide sequences. The lung cancer associated polymucleotide sequences may be used for detection of lung cancer, chromosome cor research purposes. The proteins may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, remal, and proliferative disorders. The proteins may also be used in the treatment of wounds and infectious diseases. Polymucleotide sequences AAF18425 and populate AAB58549 are used in the course of the invention for the identification and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       507
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                                                                                                                                                                                                                                                                                                                                                                                                                       Lung cancer associated gene sequences, referred to as lung cancer antigens, useful for treatment, prevention, and diagnosis of disorders such as lung cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       characterisation of the polynucleotide and protein sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 867 BP; 195 A; 223 C; 268 G; 176 T; 0 U; 5 Other;
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                                                                                                                                          08-MAR-2000; 2000WO-US005918
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                                             WO200055180-A2
                                                                                                                                                                                                                                  (HUMA-) HUMAN
(ROSE/) ROSEN
                                                                                                                                                                                          12-MAR-1999;
Homo sapiens
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BC051082 Mus muscu

X05831 Rat fibrone

BX538018 Homo sapi

AL832771 Homo sapi

AL832771 Homo sapi

BX640608 Homo sapi

BX640731 Homo sapi

BX538017 Homo sapi

BX538018 Homo sapi

BX538019 Homo sapi

BX640731 Homo sapi

BX640731 Homo sapi

BX640731 Homo sapi

BX538019 Homo sapi

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BX538019 Homo sapi

BX640813 Homo sapi

BX640813 Homo sapi

BX640875 Homo sapi

BX640813 Homo sapi

BX640814 Homo sapi

BX640815 Homo sapi

BX640816 Sequence

BX37550 Sequence

BX37550 Sequence

BX377596 Sequence

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BX3777596 Sequence
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Kits, such as nucleic acid arrays, comprising a majority of
humanexons or transcripts, for detecting expression and other uses
                  AJ276395 Homo sapi
AJ535086 Homo sapi
CQ875358 Sequence
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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PE Corporation (NY) (US)
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Sequence 17504 from Patent WO02068579.
CQ731570
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Matches:
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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CQ875357
HSM806170
HSM806171
HSM806805
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AX281712
HSM806267
AX402055
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HSM806903
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HSM803509
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HSM806653
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HSM806902
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AC124811
AC021456
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Location/Qualifiers
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Pred. No.:
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 ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
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CQ731570
LOCUS
DEFINITION
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AUTHORS
TITLE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
   ORIGIN
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-MODEL=frame+_pin.model -DEV=x1h
-MODEL=frame+_pin.model -DEV=x1h
-Qe-(cgniz_1/USPFO spool h/USOS981651/runat_07112005_092233_28778/app_query.fasta_1.1834
-DE-GenEmbl -OFWT=fastap -SUFPIX=pin.rge -MINWATCH=0.1 -LÖOFCL=0 -LIÖDEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-UNITS=bits -START=1 -END=-1 -MATRIX=100 -THR NIN=0 -ALIGN=15 -MODE=LOCAL
-USTR=T=DCALIGN=200 - THR SCORE==50 -MINLEN=0 -MAXLEN=200000000
-USR=USOS981651 @CGN 1 - 9936 @runat_07112005_09223_28778 -NCPU=6 -ICPU=3
-NO WMAP -LARGEQUERY -NGG SCORES=0 -MAIT -DSPBICCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THRRADS=1 -XGAPOP=10 -XGAPOF=0 - YGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -FGAPOP=6
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CQ871810 Sequence
CQ871828 Sequence
BD137021 Polypepti
                                                                                                                November 11, 2005, 08:45:16; Search time 562.251 Seconds (without alignments) 1809.796 Million cell updates/sec
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                  GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                      frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                      4708233 segs, 24227607955 residues
                                                                                                                                                                                                                                                                                                                                                                                                       of hits satisfying chosen parameters:
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Maximum Match 100%
Listing first 45 summaries
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CQ871810
CQ871828
BD137021
                                                                                                                                                                                                                            QQWERTYLGNALVCTCYGGSR 21
                                                                                                                                                                                                                                                                            Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                    nucleic search, using
                                                                                                                                                                                                                                                                                                                                                                                                                                          Minimum DB seq length: 0
Maximum DB seq length: 200000000
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Match Length DB
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9b htg: *
9b on: *
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PAT 27-SEP-2004

linear

CQ871810 LOCUS DEFINITION

RESULT 2

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ACCESSION VERSION

KEYWORDS SOURCE ORGANISM

REFERENCE AUTHORS

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/ CUCULA BLALLE - CAH56870.1"

/ DE XTEE="G1:52745859"

/ LTAIB1AT G1:52745859"

/ STAIB1AT G1:5274585999

VSQSKPGCYDNGKHYQINQQMBRTYLGNALVCTCYGGSRGFNCESKPEAETCPDKYT

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GVRXQCYCYGRGIGEMHLNGTCFGGGRRRWKCDPVDQCQDSSTGTFYOLGDSWREKYVH

GVRXQCYCYGRGIGEMHLNGT"

KYILRWRPVSIPPRINLGY"
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 2147)
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                 Miyake, M.A., Yoshikawa, T.A., Uchimura, B.A. and Miyake, J.A.
Time-lapse cell analysis method
Patent: WO 2004079007-A I 16-SEP-2004;
National Institute of Advanced Industrial Science and Tec hnology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'note="unnamed protein product; fibronectin 1"
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BD137021
BD137021. GI:23231966
JP 2002508179-3/1.
Homo sapiens (human)
BN 200250818-2-3/1.
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Matches:
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1. .1929
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1. .1929
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Sequence 1 from Patent WO2004079007.
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                                      RESULT 3
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VQTRGGNSNGALCHFPFLYNNHNYTDCTSEGRRDNMKWCGTTQNYDADQKFGFCPMAA
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TYNNDDTFHKAHEBGHMLNCTCFGQGRGRWKCDPVDQCQDSETGTFYQIGDSWEXYVH
GVRYQCYCRRQIGBHRQPLQTYPSSSGPVEVFITETPSQPNSHPIQWNAPQPSHIS
KYILRWRPVSIPPRNLGY"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Miyake,M.A., Yoshikawa,T.A., Uchimura,E.A. and Miyake,J.A.
Composition and method for increasing efficiency of introduction of
target substance into cell
Patent: WO 2004079332-A 1 16-SEP-2004;
National Institute of Advanced Industrial Science and Tec hnology
(JP)
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                                                                                                                                     GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
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Gémgari homo sapien

P11276 mus musculu

P04937 rattus norv

G73798 xenopus lae

G57542 cencoccus

O57542 cencoccus

O57545 cenis famil

G7778 canis famil

G7778 canis famil

G778 mus musculu

G9404 rattus morv

Q9404 saitcella c

G8051 mus musculu

G9521 ralstonia s

G7735 plasmodium

O93405 brachydanio

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                                                                           November 11, 2005, 07:57:14 ; Search time 6.14379 Seconds (without alignments) 1666.981 Million cell updates/sec
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Q6mzf4
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                           1612378 seqs, 512079187 residues
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QGBDP8
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IGIR_HUMAN
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Q9QVW4
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093406
PBE3_PHOLL
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Maximum Match 100%
Listing first 45 summaries
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1 ISKYILRWRPVSIPPRNLGY 20
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Gapop 10.0 , Gapext 0.5
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1: uniprot_sprot:*
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Maximum DB seq length: 200000000
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Match Length DB
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Q88cn7 pseudomonas Q6Aq2 oryza sativ Q9vkj0 drosophila Q8pun5 methanosarc Q6shd4 uncultured Q8h444 oryza sativ Q99n85 mus musculu Q6pdu2 rattus norv Q8ap6 cryza sativ Q8p3c6 xanthomonas Q8pfg0 xanthomonas Q8dfg0 xanthomonas Q8dfg0 cryza sativ Q8a6w7 bacteroides Q6a665 arthrobacte	AA. update) on update) ertebrata; Euteleostomi; Hominidae; Homo. culture; B., Amid C., Osanger A., 'DDBJ databases.	CRC64; Length 749; ; Indels 0; Gaps 0;		
42.7 260 2 08BCN7 42.7 289 1 04BGN7 42.7 289 1 04BGN2 42.7 439 1 04D DROME 42.3 241 2 08FUN5 41.8 87 2 08H44 41.8 196 2 06PDZ 41.8 471 2 08PPG 41.8 471 2 08PPG 41.8 471 2 08PPG 41.8 539 2 08ASP6 41.8 539 2 08ASP6	PRELIMINARY; PRT; 749 AA. (TrEMBLrel. 25, Last sequence upde (TrEMBLrel. 25, Last sequence upde (TrEMBLrel. 25, Last sequence upde (TrEMBLrel. 26, Last annotation upprotein DKFZp686B18150. (Human). (Blaiso). (Human). (Calon endothel primary cell cultusectazoa; Chordata; Catarrhini; Homison. (M.A. colon endothel primary cell cultusectazoa; Primates; Catarrhini; Homison. (M.A. colon endothel primary cell cultusectazoa; Primates; Catarrhini; Homison. (M.A. colon endothel primary cell cultusectazoa; Primates; Catarrhini; Homison. (M.A. colon endothel primary cell cultusectazoa; Primates; Catarrhini; Homison. (M. A. Firemann). (M. Yiemann S.; Firemann).	33524 MW; 100.0%; 100.0%; tive 0;	ISKYIIRWRPVSIPPRNIGY 20 ISKYIIRWRPVSIPPRNIGY 749	STANDARD; PRT; 2265 AA. (Rel. 07, Created) (Rel. 28, Last sequence update) (Rel. 44, Last annotation update) (FN).
32 333 334 47 336 47 47 46 46 46 46 46 46 46 46 46 46	191 072391 072391 01-0CT-2003 (TEBRELINI) 00CB ENDINI 01-0CT-2003 (TEBRELINI) 01-0CT-2003 (TEBRELINI) 01-0CT-2003 (TEBRELINI) 03-0CT-0CT-2003 (TEBRECINI) 03-0CT-0CT-2003 (TEBRECINI) 03-0CT-0CT-2003 (TEBRECINI) 03-0CT-0CT-2003 (TEBRECINI) 03-0CT-0CT-2003 (TEBRECINI) 03-0CT-0CT-2003 (TEBRECINI) 03-0CT-0CT-0CT-0CT-0CT-0CT-0CT-0CT-0CT-0CT	80	1 ISK 730 ISK	2 OVIN INC BOVIN 07589; 1-APR-1988 1-FEB-1994 5-JUL-2004 ibronectin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Event=Alternative splicing, Named isoforms=1;
Comment=A number of isoforms are produced. Each of the "extra
domain" and the connecting strand 3 are present in some forms of
fibronectin and absent in others;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Name=1;
Isold=P07599-1; Sequence=Displayed;
Isold=P07599-1; Sequence=Displayed;
ISSUE SPECIFICITY: Plasma FN (soluble dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is deposited as fibrils in the extracellular matrix.

PTM: Sulfated (By similarity).

SIMILARITY: Contains 12 fibronectin type I domains.
SIMILARITY: Contains 12 fibronectin type II domains.
                                                                                                                                       MEDLINE-87054047; PubMed-3780752; Skorstengaard K., Jensen M.S., Sahl P., Petersen T.E., Magnusson S.; "Complete primary structure of bovine plasma fibronectin."; Eur. J. Biochem. 161:441-453 (1986).
                                                                                                                                                                                                                                                                                   Petersen T.E., Thorgersen H.C., Skorstengaard K., Vibe-Pedersen K., Sahl P., Sottrup-Jensens L., Magnusson S.; Patrial primary structure of bovine plasma fibronectin: three types of internal homology. ", Proc. Natl. Acad. Sci. U.S.A. 80:137-141(1983).
                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE OF 2170-2265 FROM N.A., MEDLINE=81221567; PubMed=8104699; Kornblihtt A.R., Vibe-Pedersen K., Baralle F.E.; Isolation and characterization of cDNA clones for human and bovine
                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
Bovinae; Bos.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR003961; PW_III.
InterPro; IPR000857; PW_III-like.
InterPro; IPR000857; PW_III-like.
InterPro; IPR003962; PW_IYE-II.
Pfam; PPF00049; fn1; 12.
Pfam; PPF00040; fn2; 2.
Pfam; PF00041; fn3; 15.
PRINTS; PR00013; PNTYPEII.
PRINTS; PR00014; FNTYPEII.
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MEDLINE=83117805; PubMed=6218503;
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InterPro; IPR006209; EGF_like.
InterPro; IPR000083; Fibrnctn1.
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taurus (Bovine).
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                                                                             NCBI_TaxID=9913;
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Heparin-binding 2
Fibrin-binding 2.
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FN Type II; 2.
EGF 1; 2.
FIBRONECTIN 1; 12.
FIBRONECTIN 2; 2.
                     PROSITE; PS00022; EGF 1; 7
PROSITE; PS01253; FIBRONEC'
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PROSITE; PS50853; FN3; 15.
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

November 11, 2005, 08:12:29; Search time 1.51634 Seconds (without alignments) 1269.066 Million cell updates/sec Run on:

US-09-581-651D-5 110 1 ISKYILRWRPVSIPPRNLGY 20

Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 seqs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:*
1: Dir1:*
2: pir2:*
3: pir3:*
4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

22222222222222222222222222222222222222	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R	Length 1367 2386 1386 2386 1367 2477 2477 2523 203 2524 1382 218 1382 2444 2447 2447 2447 2447 2447 2447 24	# 1	ID FNNBO FNNBO IGHUR1 S14428 S14428 B82988 A33837 A75453 D82966 A35099 T09543 T09543 INHUR A36080	fibronectin - bovi fibronectin precur insulin-like growt fibronectin precur hypothetical prote insulin-like growt hypothetical prote conserved hypothetical prote conserved hypothetical prote insulin receptor deoxyxylulose synt cellulose synt cellulose synt cellulose synt cellulose synthase insulin receptor pinsulin beta chain tubulin beta chain tubulin beta chain hypothetical prote
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39.1	39.1	39.1	39.1	38.6	38.6	38.6	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.5
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ALIGNMENTS

RESULT 1 FNBO Cibronectin - bovine Cibronectin - bovine Cibronectin - bovine Cibronectin - bovine Cispecies: Bos primigenius taurus (cattle) Cispecies: Bos primigenius taurus (cattle) Cispecies: Bos primigenius taurus (cattle) Cispecies: Bos primigenius taurus Cispecies: Bos primigenius Cispecies: Bos
R; Perersen, T.E.; Thogersen, H.C.; Skorstengaard, K.; Vibe-Pedersen, K.; Sahl, P.; Sottr. Proc. Natl. Acad. Sci. U.S.A. 80, 137-141, 1983 A; Title: Partial primary structure of bovine plasma fibronectin: three types of internal A; Reference number: A23292; MUID:83117805; PMID:6218803 A; Accession: A23292 A; Molecule type: protein A; Residues: 1-16, 'C', 18-20, 'S', 22-432; 447-463; 1367-1517; 1567-1673; 2062-2176, 'N', 2178-226 C; Comment: Cys.1201 and Cys-2015 have free sulfhydryl groups. C; Comment: The plasma fibronectin molecule consists of two chains, which are connected b C; Comment: Fibronectins bind cell surfaces and various compounds including collagen, fibronectins bind cell surfaces and various compounds including collagen, fibronectins bind cell surfaces and various compounds including collagen, fibronectins bind cell surfaces and various compounds including collagen.
aling, and maintenance of cell shape. C;Comment: Plasma fibronectin is synthesized by hepatocytes. C;Comment: Plasma fibronectin type I repeat homology; fibronectin type II repe C;Supermaily: fibronectin; fibronectin type I repeat homology; fibronectin; extracellu C;Keywords: acute phase; alternative splicing; collagen binding; duplication; extracellu F;21-241/Domain: fibronectin type I repeat homology <1F1> F;66-104/Domain: fibronectin type I repeat homology <1F2> F;110-148/Domain: fibronectin type I repeat homology <1F3> F;155-194/Domain: fibronectin type I repeat homology <1F4> F;277-577/Domain: collagen binding <1F8> F;277-577/Domain: collagen binding <1F8>
277-311/Domain: fibronectin type 329-370/Domain: fibronectin type 389-430/Domain: fibronectin type 439-477/Domain: fibronectin type 487-524/Domain: fibronectin type 578-661/Domain: fibronectin type 578-661/Domain: fibronectin type 688-770/Domain: fibronectin type 779-860/Domain: fibronectin type

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R;Vibe-Pedersen, K.; Magnusson, S.; Baralle, F.E.
FEBS Lett. 207, 287-291, 1986
A;Title: Donor and acceptor aplice signals within an exon of the human fibronectin gene:
A;Reference number: A24854; MUID:87030929; PMID:3770201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Status: not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-14,'Q',16-38 <GUT>
R;Kornblihtt, A.R.; Umezawa, K.; Vibe-Pedersen, K.; Baralle, F.E.
EMBO. 74, 1755-1759, 1985
A;Title: Primary structure of human fibronectin: differential splicing may generate at 1, A;Reference number: A91008; MUID:85284965; PMID:2992939
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ajaccession: A91008
Ajstatus: nucleic acid sequence not shown
Ajmolecule type: mRNA
Ajmolecule type: mullo: 84272258; pMID:6462919
Ajmolecule type: mullo: 84272258; pMID:6462919
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A; Residues: 973-2080;2112-2386 <KO2>
A; Cross-references: GB: X00739
R; Oldberg, A.; Linney, E.; Ruoslahti, E.
B; Biol. Chem. 258, 10139-10136, 1983
A; Title: Molecular Cloning and nucleotide sequence of a cDNA clone coding for the cell a.
A; Reference number: A21011; MUID:83290929; PMID:6688418
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R;Bernard, M.P.; Kolbe, M.; Well, D.; Chu, M.L.
Biochemistry 24, 2698-2704, 1985
A;Title: Human cellular fibronectin: comparison of the carboxyl-terminal portion with ra, A;Reference number: A90495; MUID:85280409; PMID:2992573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Sekiguchi, K.; Klos, A.M.; Kurachi, K.; Yoshitake, S.; Hakomori, S.
Biochemistry 25, 4936-4941, 1986
A;Title: Human liver fibronectin complementary DNAs: identification of two different mes
A;Reference number: IS2394; MUID:87026578; PMID:3021206
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A;Residues: 1978-1990,2016-2018,'N',2020-2081,2113-2127 <SEK>
A;Cross-references: GB:M14060; NID:g182701; PIDN:AAA52464.1; PID:g182704
R;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
Proc. Natl. Acad. Sci. U.S.A. 80, 3218-3222, 1983
A;Title: Isolation and characterization of cDNA clones for human and bovine fibronectine.
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A;Residues: 1554-2386 <BRN>
A;Cross-references: GB:M10905; NID:g182696; PIDN:AAA52462.1; PID:g182697
R;Cross-references: GB:M10905; NID:g182696; PIDN:AAA52462.1; PID:g182697
R;Umczawa, K.; Kornblihtt, A.R.; Baralle, F.E.
FEBS Lett. 186, 31-34, 1985
A;Title: Isolation and characterization of cDNA clones for human liver fibronectin.
A;Reference number: A22245; MUID:85231203; PMID:2989004
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A;Residues: 1948-2067 <UME>
A;Cross-references: GB:M27589; NID:g182705; PIDN:AAA52465.1; PID:g182706
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A;Residues: 1992-2147 <VIB>
A;Residues: 1992-2147 <VIB>
A;Crose-references: GB:X04530; NID:g31436
B;Gruman, A.; Yamada, K.M.; Kornblihtt, A.
FEBS Lett. 207, 145-148, 1986
A;Title: Human fibronectin is synthesized as a pre-propolypeptide.
A;Reference number: A24476; MUID:87030890; PMID:3770189
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A;Residues: 1975-1991;2017-2039 <UM2>
A;Cross-references: GB:M27590
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A;Residues: 1434-1537 <OL2>
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Inhoractin precursor [validated] - human
NyAlterate names: fibronectin splice form ED-A
C;Species: Homo saptens (man)
C;Date: 27-Nov-1985 #sequence revision 31-Mar-1993 #text change 09-Jul-2004
C;Date: 27-Nov-1985 #sequence revision 31-Mar-1993 #text change 09-Jul-2004
C;Date: 27-Nov-1985 #sequence revision 6 the human fibronectin gene.
R;Dean, D.C.; Bowlus, C.L.; Bourgeois, S.
Proc. Nall, Acad. Sci. U.S.A. 84, 1876-1880, 1987
A;Title: Cloning and analysis of the promoter region of the human fibronectin gene.
A;Reference number: A26460; MUID: 87175578; PMID: 3031656
A;Accession: A26460
A;Accession: A26460
A;Accession: A26460
A;Accession: A26460
A;Accession: A26460
A;Accession: A2624; MUID: 86111901; PMID: 3003095
A;Accession: A2634
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F;965-1046/Domain: fibronectin type III repeat homology <FN3E>
F;105-1134/Domain: fibronectin type III repeat homology <FN3E>
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F;1136-1136/Domain: fibronectin type III repeat homology <FN3I>
F;140-117/Domain: fibronectin type III repeat homology <FN3I>
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F;1410-117/Domain: fibronectin type III repeat homology <FN3I>
F;1430-1495/Region: cell attachment (R-G-D) motif
F;160-1682/Domain: fibronectin type III repeat homology <FN3I>
F;160-1870/Domain: fibronectin type III repeat homology <FN3I>
F;198-2052/Domain: fibronectin type III repeat homology <FN3I>
F;198-2052/Domain: fibronectin type III repeat homology <FN3IO>
F;198-2065/Domain: fibronectin type II repeat homology <FN3IO>
F;108-204/Domain: fibronectin type I repeat homology <FN3IO>
F;108-2144/Binding site: carbohydrate (Man) (covalent) #status sxperimental F;3/Cross-link: lsopoptide (Gln) (interchain to Lys N6-amino of fibrin) #status sxpe F;2105,152-2167,2174-2200,2198-2209/Dismilfide bonds: fibraching site: carbohydrate (Man) (covalent) #status sxperimental F;225/Dismilfide bonds: interchain (to 2250) #status predicted
F;225/Dismilfide bonds: interchain (to 2260) #status predicted
F;225/Dismilfide bonds: interchain (to 2260) #status predicted
F;225/Dismilfide bonds: interchain (to 2260) #status predicted
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November 11, 2005, 08:29:55 ; Search time 6.77124 Seconds (without alignments) 1235.843 Million cell updates/sec
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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esult being printed, rribution.			Description	Sequence 354, App	Sequence 1066, Ap	Sequence 359, App	Sequence 1072, Ap	Sequence 2, Appli	Sequence 78, Appl	Sequence 1, Appli	Sequence 1, Appli	Sequence 356, App	Sequence 1069, Ap	Sequence 52634, A
ater than or equal to the score of the result being printed, rived by analysis of the total score distribution.	SUMMARIES		ID	S US-10-741-601-354	7 US-10-741-600-1066	S US-10-741-601-359	7 US-10-741-600-1072	3 US-10-156-820-2	3 US-10-156-820-78	1 US-10-005-171-1	5 US-10-431-642-1	5 US-10-741-601-356	7 US-10-741-600-1069	18 US-10-450-763-52634
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ALIGNMENTS

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Gapa
Sequence 354, Application US/10741601
Publication Vo. US20040166519A1
GENURAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
ITILE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLOO1500
CURRENT APPLICATION NUMBER: US/10/741,601
CURRENT PILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 26415
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 354
LENGTH: 642
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Sequence 1066, Application US/10741600
Publication No. US20050026169A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
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                                                                                                                                                                                                                                                                                                                  TYPE: PRT
ORGANISM: Homo sapiens
0-741-601-354
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Sequence 2, Application US/10156820
| Sequence 2, Application No. US20020150558A1
| Publication No. US20020150558A1
| GENERAL INPORMATION:
| APPLICANT: Boulanger, Pierre
| APPLICANT: Hong, Saw See
| APPLICANT: Hong, Saw See
| APPLICANT: Acrayan, Lucie
| TILE REFERENCE: 032751-036
| CURRENT APPLICATION UNMER: US/10/156,820
| CURRENT APPLICATION NUMBER: PCT/FR98/00184
| PRIOR FILING DATE: 1998-01-30
| PRIOR PELICATION NUMBER: FR 97/01005
| PRIOR PELICATION NUMBER: FR 97/11166
| PRIOR APPLICATION NUMBER: PR 97/11166
| PRIOR PELING DATE: 1997-09-09
| NUMBER OF SEQ ID NOS: 98
| SOFTWARE: FastERQ for Windows Version 4.0
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V 100.0%; Pred. No. v.
                                                 638 İSKYİLRWRPVSIPPRNLGY 657
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Best Local Similarity 100.
Matches 10; Conservative
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US-10-156-820-2
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Publication No. US20050026169A1
GENERAL INFORMATION:
APPLICANT: CARGILL, Michele et al.
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
FILE REFRENCE: CL001499
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 73997
SEQ ID NO 1072
LENGTH: 657
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: MYOCARDIAL INPARCTION, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001499
CURRENT APPLICATION NUMBER: US/10/741,600
CURRENT PILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 73997
SUFTWARE: FaetSEQ for Windows Version 4.0
SEQ ID NO 1066
LENGTH: 642
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Publication No. US20040166519A1
REBERRATION:
APPLICANT: CARGILL:
APPLICANT: CARGILL:
APPLICANT: CARGILL:
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF
FILE REPERENCE: CL001500
CURRENT APPLICATION NUMBER: US/10/741,601
CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 26415
SOCTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 359
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; ORGANISM: Homo sapiens
US-10-741-601-359
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CORGANISM: Homo sapiens
US-10-741-600-1072
                                                                                                                                                                                                  ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-741-600-1066
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US-10-741-600-1072
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US-10-741-601-359
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Sequence 12,
Sequence 12,
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1: /cgn2_6/ptodata/1/laa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/laa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/laa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/laa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/laa/PCTUS_COMB.pep:*
GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-09-155-613A-78
US-08-340-812-2
US-08-460-422-2
US-08-460-421A-2
US-08-460-421A-2
US-08-717-169-4
US-08-717-169-4
US-08-228-901A-6
US-08-340-812-12
US-08-459-064B-12
US-08-459-064B-12
US-08-459-064B-12
US-08-460-421A-12
US-08-460-421A-11
US-08-460-421A-11
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US-09-228-901A-2
US-07-829-462-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Total number of hits satisfying chosen parameters:
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Maximum Match 100%
Listing first 45 summaries
                                                                                                           OM protein - protein search, using sw model
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1 ISKYILRWRPVSIPPRNLGY 20
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length
                     Copyright
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Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                           Scoring table:
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ALIGNMENTS

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## Sequence 2, Application US/09155613A
## Patent No. 6420120
| GENERAL INFORMATION:
| APPLICANT: Boulanger, Pierre
| APPLICANT: Hong, Saw See
| APPLICANT: Hong, Saw See
| APPLICANT: Karayan, Lucie
| APPLICANT: Karayan, Lucie
| APPLICANT: Karayan, Lucie
| APPLICANT: Karayan, Lucie
| APPLICANT: Karayan, Lucie
| APPLICANT: MANBER: US/09/155,613A
| CURRENT APPLICATION NUMBER: US/09/155,613A
| CURRENT APPLICATION NUMBER: PS 97/01005
| PRIOR APPLICATION NUMBER: PS 97/01005
| PRIOR APPLICATION NUMBER: FR 97/01005
| PRIOR APPLICATION NUMBER: FR 97/11166
| PRIOR APPLICATION NUMBER: FR 97/11166
| PRIOR APPLICATION NUMBER: FR 97/11166
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Sequence 78, Application US/09155613A

Patent No. 6420120

GENERAL INCOMMATION:

GENERAL INCOMMATION:

APPLICANT: Boulanger, Pierre

APPLICANT: Hong, 8sw See

APPLICANT: Karayan, Lucie

APPLICANT: Was of a Polypeptide as Cell Receptor for Adenoviruses

TITLE OF INVENTION: Use of a Polypeptide as Cell Receptor for Adenoviruses

FILE REFERENCE: 032751-036

CURRENT APPLICATION NUMBER: US/09/155,613A

CURRENT PILING DATE: 1998-01-30

PRIOR APPLICATION NUMBER: FY 97/01005
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Matches 10; Conservative
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Sequence 1, Application US/07829462
Batent No. 5453489
GENERAL INFORMATION:
APPLICANT: RUOSIANT, Erkki I.
APPLICANT: MONIA, Alex
TITLE OF INVENTION: NOVEL FRAGMENTS OF FIBRONECTIN AND
TITLE OF INVENTION: EXTRACELLULAR MATRIX ASSEMBLY
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 La Jolla Village Drive, Suite 700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ô
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                                                                                                                                                                                                                                                                   50.9%; Score 56; DB 4; Length 26; 100.0%; Pred. No. 0.087; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Batentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/829,462
FILING DATE: 19920131
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CANTRYN A.
REGISTRATION NUMBER: 31,547
REFERENCE/DOCKET NUMBER: 9-LA 9179
TELEPHONE: 619-535-9001
TELEPHONE: 619-535-9001
TELEFAX: 619-535-9001
INFORMATION FOR SEQ ID NO: 2:
PRIOR FILING DATE: 1997-01-30
PRIOR APPLICATION NUMBER: FR 97/11166
PRIOR FILING DATE: 1997-09-09
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FASISEQ for Windows Version 4.0
SEQ ID NO 78
LENGTH: 26
                                                                                                                                             TYPE: PRT ORGANISM: Artificial Sequence
                                                                                                                                                                                                       ) OTHER INFORMATION: Phagotope US-09-155-613A-78
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LENGTH: 31 amino acids
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Best Local Similarity 100.
Matches 10; Conservative
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Best Local Similarity 100.
Matches 10; Conservative
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STATE: California
COUNTRY: USA
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RESULT 4

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Sequence 2, Application US/08340812
Sequence 2, Application US/08340812
Sequence 2, Sep293
Patent No. 5629291
GENERAL INFORMATION:
APPLICANT: MORLAHII, ALEK
APPLICANT: MORLAHII, ALEK
TITLE OF INVENTION: MODULATING FIBRONECTIN EXTRACELLULAR MATRIX ASSEMBLY
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 LA JOLLA VILLAGE DRIVE, STE 700
CORRESPONDENCE AND INCOME.
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Sequence 2. Application US/08459064B

Sequence 2. Application US/08459064B

GENERAL INFORMATION:
APPLICANT: RUGSLAHI, ERKKI I.
APPLICANT: MORLA, ALEX
TITLE OF INVENTION: A METHOD OF MODULATING TUMOR CELL MIGRATION
TITLE OF INVENTION: USING FIBRONECTIN TYPE III PEPTIDES
NUMBER OF SEQUENCES: 35
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL & FLORES LLP
STREET: 4370 LA JOLLA VILLAGE DRIVE, STE 700
STREET: AAN DIEGO.
STREET: CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gape
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MEDIUM TYPE: Floppy disk
COMPUTER: BLAD FO Compatible
COMPUTER: Floppy disk
COMPUTER: BLAD FO Compatible
COPERATION SYSTEM: FC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,812
FLING DATE: 17-NOV-1994
CLASSIFICATION NUMBER: 08/021,626
FILING DATE: 16-FEB-1993
ATYONEY/AGENT INPORMATION:
NAME: BELLAS, CHRISTINE M
REGISTRATION NUMBER: 34,122
REPERENCE/DOCKET NUMBER: P-LA 9442
TELEFRAK: 619-535-9001
TELEFRAK: 619-535-9001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          50.9%; Score 56; DB 1;
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COUNTRY: UNITED STATES
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATION
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                           STATE: CALIFORNIA
COUNTRY: UNITED STATES
ZIP: 92122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 619-535-8949
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
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Best Local Similarity 100.
Matches 10, Conservative
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US-08-459-064B-2
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5.1.6
Compugen Ltd
 GenCore version (c) 1993 - 2005
           Copyright
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using sw model protein search, OM protein - November 11, 2005, 07:55:44; Search time 7.39869 Seconds (without alignments) 1045.483 Million cell updates/sec Run on:

US-09-581-651D-5 Title: Perfect score:

110 1 ISKYILRWRPVSIPPRNLGY 20 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692 segs, 386760381 residues Searched:

2105692 Total number of hits satisfying chosen parameters:

length: 0 length: 2000000000 DB sed DB sed Minimum I Maximum I Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

geneseqp1990s:* geneseqp1990s:* geneseqp2000s:* geneseqp2001s:* geneseqp2001s:* geneseqp2003as:* geneseqp2003as:* A_Geneseq_16Dec04:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:*

	no	MSF 1-alp	Human myo		Amino aci	Human fib	Human myo	Human mig	Amino aci	Bovine fi	Peptide e	Human fib	Human fib	Motif 1 o	Fibronect	Fibronect	Human fib	Fibronect	Fibronect	Human fib	Fibronect	Human fib	Angiogene	Fibronect	Human fib	Fibronect
	Description	Aay28902	Adg39403	Adr67316	Ads17489	Adr97658	Adq39409	Aay28901	Ads17498	Adr97667	Aay28911	Aaw75324	Aaw75260	Aaw70995	Aaw19970	Aaw57192	Aaw82986	Aaw57194	Aaw19973	Aaw82984	Aaw57191	Abu63426	Ad158820	Aaw19972	Aaw82983	Aaw19974
SUMMAKIES	QI	AAY28902	ADQ39403	ADR67316	ADS17489	ADR97658	ADQ39409	AAY28901	ADS17498	ADR97667	AAY28911	AAW75324	AAW75260	AAW70995	AAW19970	AAW57192	AAW82986	AAW57194	AAW19973	AAW82984	PAW57191	ABU63426	ADI58820	AAW19972	AAW82983	AAW19974
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	Query Match Length	20	642	642	642	642	657	099	2265	2265	20	26	56	56	31	31	31	26	99	99	75	75	75	85	85	83
de	Query	100.0	100.0	100.0	100.0	100.0	100.0	100.0	55.5	55.5	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
	Score	110	110	110	110	110	110	110	61	61	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
	Result No.	7	8	٣	4	S	9	7	ω	0	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Aaw57195 Fibronect Aaw57196 Fibronect Aaw57190 Fibronect Aaw57189 Fibronect Aaw58292 Human fib Aay28914 Fibronect Add39406 Human myo Aar68039 Cathepsin Add52275 Novel hum Add75952 Human min Add75955 Human ser Add5036 Human ser Add5036 Human ser Add56462 Human leu Adr66462 Human leu	Human Human Human Human
AAW57195 AAR52985 AAR57190 AAR53729 AAR53729 AAR5372982 AAR52982 AAR58914 AAR08399 AAR08399 AAR08399 AAR08039	ADR66120 ABO01289 ADN95950 AAM38647
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ALIGNMENTS

AAY28902

AAY28902 standard; peptide; 20 AA

AAY28902;

(first entry) 21-SEP-1999

MSF 1-alpha peptide epitope.

Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; epitope; fibronectin.

Homo sapiens Synthetic.

WO9931233-A1.

24-JUN-1999.

98WO-GB003766 15-DEC-1998; 97GB-00026539. 16-DEC-1997;

(UYDU-) UNIV DUNDEE.

Schor AM;

Schor SL,

WPI; 1999-430039/36.

Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.

Claim 18; Page 57; 86pp; English.

The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing carring. Sequences AAY28902-906 represent peptide epitopes of MSF against which monoclonal antibodies that are specific to MSF and do not cross-react with fibronectin are

Sequence 20 AA;

Length 20; Score 110; DB 2; Pred. No. 1.3e-09; 100.0%; Query Match Best Local Similarity

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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's cateraction in the individual. The individual's cateraction in the individual in the individual in the individual in the individual in the individual. The invention curther comprises an isolated nucleic acid molecule comprising at least sentiture comprises an isolated nucleic acid molecule comprising at least sentiture comprises an isolated nucleic acid molecule comprising at least sentiture in the specification one of the nucleotides is an SNP given in the specification and manno acid sequence given in the specification, an antibody comprising an amplified polynucleotide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in capering and supply and supply and supply and supply and supply and supply molecides in an enthod for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method is useful in identifying an individual who has an increased or
ö
                                                                                                                                                                                                                                                                                                                Human myocardial infarction-associated gene derived protein, SEQ ID 1066.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: Thi sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   method is useful in identifying an individual who has an anacture of decreased risk for developing myocardial infarction and for preparing a decreased risk for infarction. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                         Myocardial infarction; detection; single nucleotide polymorphism; SNP;
    Gaps
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    Indels
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  0; Mismatches
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                                                                                                                                                                                      ADQ39403 standard; protein; 642 AA
                                         1 ISKYILRWRPVSIPPRNLGY 20
                                                                   1 ISKYILRWRPVSIPPRNLGY 20
                                                                                                                                                                                                                                                                                                                                                                                 cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466112P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                         (first entry)
    20; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention describes nucleic acids (I) associated with bladder
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                                                                                                                                                                                                                                                                            Human bladder cancer associated amino acid sequence.
                                                                                                                                                                                                                                                                                                     bladder cancer tissue; bladder cancer; cytostatic.
                                  Score 110; DB 8;
Pred. No. 5.3e-08;
; Mismatches 0;
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100.0%; Pred. No. 5.3e-08;
tive 0; Mismatches 0;
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nes 20; Conserv
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              Sequence 642 AA;
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Alz63888 362 bp mRNA linear EST 13-NOV-1998
qi08dil.xi Soares NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1855893
3' similar to gb:X02761_cda1 FIBRONECTIN PRECURSOR (HUMAN);, mRNA
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PM4-CI015
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AJ665984
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RC2-AN006
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SP BB006
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CM4-NT028
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RC3-ET013
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BB394322
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Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Seg primer: -400P from Gibco.
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP)
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1855893"
/tissue_type="Pooled human mela
pregnant uterus"
/lab_hoste="DH108"
/clone_lib="Soares_NhHMPu_S1"
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CK450361
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CN16246
BB361047
CCC193783
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Unpublished (1997)
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DEFINITION
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VERSION
KEYWORDS
SOURCE
ORGANISM
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AUTHORS
TITLE
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Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-MODEL=frame+ p2n.model -DEV=xlh
-Q=/Cgn2 1/USFTO spool h/USOS981651/runat 07112005 092223 28789/app_query.fasta_1.1834
-Q=/Cgn2 1/USFTO spool h/USOS981651/runat 07112005 092223 28789/app_query.fasta_1.1834
-DB=EST -QFRT=fastap -SUFFIX=p2n.rst -MINMATCH=0.1 -LOOPEL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=-1 -MATRIX=blosume2 -TRANS=human40.cdi -LLST=45
-DOCALIGN=200 -THR SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL
-UOTFWHEPAD- -NORM=ext -HEAPSIZE=500 -MINIEN=0 -MAXEBN=200000000
-USER=USOS581651_@CGN 1 1 8180 @runat 07112005 092223 28789 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSDEJCCK=100 -LONGLOG
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSDEJCCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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AA234360 zr72c02.8
A1754331 cr23e08.x
BUG20723 UI-H-FLLI-
BM674187 UI-H-FELI-
BX402381 BX402381
BX398837 BX398837
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             GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                            frame_plus_p2n model
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                                                                          nucleic search, using
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Perfect score:
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Maximum DB 8
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/note="Organ: mixed (see below); Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (melanocyte 2NBHW, pregnant uterus NBHPU, and fetal heart NBHH19W) were mided in vitro. Pollowing HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools 5,000 clones made from the same 3 libraries. The pools 340488-345479, and 484488-489479."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA234360 391 bp mRNA linear EST 06-AUG-1997 zr72c02.81 Scares NhHMPu_S1 Homo sapiens cDNA clone IMAGE:668930 3' similar to gb:X02761_cds1 FIBRONECTIN PRECURSOR (HUMAN);, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   214 ATTICCAAGTACATICTCAGGTGGAGACCTGTGAGTATCCCACCCAGAAACCTTGGATAC 155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalla; Butheria; Primates; Catarrhini; Hominidae; Homo. [1 (bases 1 to 391)]
Hiller,L., Allen,M., Bewles,L., Dubuque,T., Geisel,G., Jost,S., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin,J., Morre,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R. Theising,B., Unpublished (1997)
Contact: Wilson RK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /lab host="DHIOB"
/clone lib="Soares NhHMPu S1"
/note="Gorgan: mixed (see Below); Vector: pT7T3D-Pac
/hote="Gorgan: mixed (see Below); Vector: pT7T3D-Pac
(Pharmacia) with a modified polylinker; Site 1: Not I;
Site_2: Eco RI; Equal amounts of plasmid DNA_from three
normalized libraries (melanocyte ZNbHM, pregnant uterus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:9606"
/clone="IMAGE:668930"
/tissue_type="Pooled human melanocyte, fetal heart, and
pregnant uterus".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Washington Diversity School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
7e1: 314 286 1810
Fax: 314 286 1810
Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 678 Std Error: 0.00
Seq primer: -41m13 fwd. ET from Amersham
High quality sequence stop: 376.
Location/Qualifiers
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Matches:
Conservative:
Mismatches:
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/db_xref="GDB:5562897"
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Homo sapiens
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Query Match:
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AA234360/c

RESULT 2

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DEFINITION

ACCESSION VERSION KEYWORDS SOURCE ORGANISM TITLE JOURNAL COMMENT

FEATURES

REFERENCE AUTHORS

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NDHPU, and fetal heart NDHH19W) were mixed, and 8s circles were made in vitro. Pollowing HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5.00 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 260232-265223, 340488-345479, and 484488-489479."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     440 bp mRNA linear EST 20-JUN-2002 cr23a68.x1 Human bone marrow stromal cells Homo sapiens cDNA clone AL754331
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /tissue_type="bone marrow stroma"
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/dev_stage="mixed"
/lab_host="XLI-Blue MRF'/SOLR"
/clone_lib="Wild man bone marrow stromal cells"
/note="Vector: pBluescript; Site_1: EcoRI; Site_2: XhoI; mRNA made from human bone marrow stroma, cDNA made by aligo-dT priming. Directionally cloned. Size-selected for a verage insert size >0.5 kb. Library constructed by Dr. Marian Young and Dr. Pamela Gehron Robey (NIDCR). Library supplied by Dr. Libin Jia (NHGRI)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                     205 ATTICCAAGTACATTCTCAGGTGGAGACCTGTGAGTATCCCACCAGAAACCTTGGATAC 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo appiens
Bulkaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 440)
Jia,L., Young,M.F., Powell,J., Yang,L., Ho,N.C., Hotchkiss,R.,
Robey,P.C. and Francomano,C.A.
Gene expression profile of human bone marrow stromal cells:
high-throughput expressed sequence tag sequencing analysis
                                                                                                                                                                                                                                                                                                                                                                                                                              1 ileSeriysTyrileLeuArgTrpArgProValSerIleProArgAsnLeuGlyTyr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Medical Genetics Branch
National Human Genome Research Institute
10/10c101, 9000 Rockville Pike, Bethesda, MD 20892-1267, USA
Tel: 301-402-4877
Fax: 301-496-7157
Bmail: libin@helix.nih.gov
DNA Sequencing and analyses by National Institutes of Health
Intramural Sequencing Center (NISC).
Plate: 23 row: e column: 08
Seq primer: -21M13 forward primer (ABI).
                                                                                                                                                                                                                            391
                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /organism="Homo sapiens"
/mol_type="mRNA"
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/sex="mixed"
                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                         US-09-581-651D-5 (1-20) x AA234360 (1-391)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .440
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DB:
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AUTHORS
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
             Copyright
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OM protein - nucleic search, using frame_plus_p2n model
                                                Run on:
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November 11, 2005, 15:20:41; Search time 102.693 Seconds (without alignments) 1610.594 Million cell updates/sec 110 1 ISKYILRWRPVSIPPRNLGY 20 Xgapop 10.0 , Xgapext Ygapop 10.0 , Ygapext Fgapop 6.0 , Fgapext Delop 6.0 , Delext US-09-581-651D-5 **BLOSUM62** Title: Perfect score: Sequence: Scoring table:

of hits satisfying chosen parameters: rotal number

9794790 segs, 4134909567 residues

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Command line parameters:
-MODEL=frame+_pan.model -DEV=xlh
-MODEL=frame+_pan.model -DEV=xlh
-MODEL=frame+_pan.model -DEV=xlh
-De-Cgnz 1/USPTO gpool h/US09581651/runat_07112005_092226_28867/app_query.fasta_1.1834
-De-Cgnz 1/USPTO gpool h/US09581651/runat_07112005_092226_28867/app_query.fasta_1.1834
-De-Dublished Applications NA -OFMT=fastap -SUPFIX=p2n.rmpb -MINMATCH=0.1
-TRANS-bumand_0.cdi -ULST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-AALGN=15 -MODE=LOCAL -OUTFMT=pct -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXIEN=200000000 -USER=US09581651 @CGN 1 1 1041 @runat_07112005_09226_28867
-NCPUe = ICPU=3 -NO MAXP -LARGEQUERY -NEG SCORES=0 -MAIT -DSPBLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPEXT=0.5
-FGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database

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Lenned Applications NA:

1: (cgn2_6/ptodata1/)pubpna/US07_PUBCOMB.seq:*

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6: (cgn2_6/ptodata1/)pubpna/US00_NEW_PUB.seq:*
Published Applications NA:*
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117:
120:
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chance to have a result being printed, Pred. No. is the number of results predicted by chance to h score greater than or equal to the score of the result bein and is derived by analysis of the total score distribution.

SUMMARIES

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110	·. 8	2127	22	-10-956-157-4	Sequence	4288, Ap
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110	٠,	2443	20	-10-741-601-7	Sequence	ò
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110	8	2488	~	-10-741-600-24	Sequence	244, App
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110	00	4295	~	-10-491-566-5	Sequence	ä
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110	00	87467	~	-10-741-600-17	Seguence	762
59		937	-	-10-369-493-2756	Seguence	• •
92		540	~	-10-695-140-1	Seguence	
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26		6189	7	-11-006-313	Sequence	41
26		6510	~	-10-741-601-7	Sequence	ัด
99		6510	N	-10-741-600-2	Sequence	4
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26		7361	7	-10-236	Sequence	
26		7677	N	-10-956-157-4	Sequence	4995, Ap
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26		7680		-10	Sequence	79
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26		7680	~	US-10-680-287A-654	Seguence	65
26		7680	7	9	Sequence	88
26		7680	22	78-698-6	Sequence	ö
56		7680	22	US-10-843-641A-5877	Sequence	œ
56		7680	22	S-10-477-173-65	Sequence	ŝ
56	50.9	7680	22	-10-852-335A	Sequence	52, Appl
10		7705	18	-10-447-161-4	Seguence	
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ALIGNMENTS

Sequence 42467, Application US/10242535A
Publication No. US20040013663A1
GENERAL INFORMATION:
APPLICANT: ChondreGene Inc.
APPLICANT: Liew, C.C.
TITLE OP INVENTION: Compositions and Methods Relatiing to Osteoarthritis
FILE REFERENCE: 4231/2005
CURRENT APPLICATION NUMBER: US/10/242,535A
CURRENT FILING DATE: 2002-09-12
PRIOR APPLICATION NUMBER: US 10/085,783
PRIOR APPLICATION NUMBER: US 60/305,340 US-10-242-535A-42467

us-09-581-651d-5.p2n.rnpb

2

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Sequence 42467, Application US/10085783A;
Sequence 42467, Application US/10085783A;
Sequence 42467, Application No. US20040037841A1
Sequence 42467, Application No. US20040037841A1
Sequence 42467, Application No. US20040037841A1
GENERAL INFORMATION:
TAPLICANT: ChondroGene Inc.
TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
FILE REFERENCE: 4231/2002
CURRENT FILING DATE: 2002-02-28
CURRENT FILING DATE: 2001-07-13
PRIOR FILING DATE: 2001-07-13
PRIOR FILING DATE: 2001-03-12
PRIOR FILING DATE: 2001-03-12
PRIOR FILING DATE: 2001-03-12
PRIOR FILING DATE: 2001-03-12
PRIOR FILING DATE: 2001-03-12
SOFTWARE: Patentin version 3.2
SEQ ID NO 42467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 IleSerLysTyrIleLeuArgTrpArgProValSerIleProProArgAsnLeuGlyTyr
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Matches:
Conservative:
Mismatches:
Indels:
Gaps:
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Matches:
Conservative:
Mismatches:
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| PRIOR FILING DATE: 2001-07-13
| PRIOR APPLICATION NUMBER: US 60/275,017
| PRIOR FILING DATE: 2001-03-12
| PRIOR PILING DATE: 2001-02-28
| NUMBER OF SEQ ID NOS: 58994
| SOFTWARE: PatentIn version 3.2
| SEQ ID NO 42467
| LENGTH: 471
                                                                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                                                                                        FEATURE:

NAME/KEY: misc_feature

LOCATION: (7)

OTHER INFORMATION: n is a, c, g, or t

US-10-242-535A-42467
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FEATURE:
NAME/KRY: misc feature
LOCATION: (7): (7)
OTHER INFORMATION: n is a, c,
US-10-085-783A-42467
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Best Local Similarity:
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US-10-085-783A-42467
                                                                                                                                              TYPE: DNA
ORGANISM: Human
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Pred. No.:
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Pred. No.:
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APPLICANT: Mounts, William
TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
TITLE OF INVENTION: HUMAN OSTEORRTHRITIS AND HUMAN PROTEASES
TITLE OF INVENTION: HUMAN OSTEORRTHRITIS AND HUMAN PROTEASES
TITLE OF INVENTION: HUMAN OSTEORRTHRITIS AND HUMAN PROTEASES
CURRENT APPLICATION NUMBER: US/10/956,157
CURRENT FILING DATE: 2004-10-04
NUMBER OF SEQ ID NOS: 319805
SOFTWARE: PALENTIN VERSION 3.2
SEQ ID NO 9523
LENGTH: 600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 396 ATTICCAAGIACATICTCAGGIGGAGACCTGIGAGIATCCCACCCAGAAACTTGGATAC 455
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 49, Application US/10210120
; Sequence 49, Application US/10210120
; Publication No. US20030175736A1
; GENERAL INFORMATION:
; APPLICANT: Chinnalyan, Arul M.
; APPLICANT: Chinnalyan, Arul M.
; APPLICANT: Stoekumar, Arul M.
; TITLE OF INVENTION: Expression Profile of Prostate Cancer; FILE REFERENCE: UM-07221
; CURRENT APPLICATION NUMBER: US/10/210,120
; CURRENT FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2001-08-02
; PRIOR FILING DATE: 2001-08-02
; PRIOR FILING DATE: 2001-11-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 49
; LENGTH: 2127
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                               Sequence 9523, Application US/10956157, Publication No. US20050118625A1, GENERAL INFORMATION:
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; ORGANISM: Homo sapiens
US-10-210-120-49
                                                                                                                                                                                                                                                                                                       TYPE: DNA
CORGANISM: Homo sapiens
US-10-956-157-9523
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Best Local Similarity:
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Best Local Similarity:
                                                                                             APPLICANT: Wyeth
RESULT 3
US-10-956-157-9523
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Sequence:

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Searched:

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US-09-949-016-15868/C

Sequence 15868, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

CURRENT PILICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR FILING DATE: 2000-10-20

PRIOR PILING DATE: 2000-10-03

PRIOR PILING DATE: 2000-10-03

PRIOR PILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTHARE: FEBSEE for Windows Version 4.0

SEQ ID NO 15868

LENGTH: 374159
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Sequence 1, Appli
Sequence 1011, Ap
Sequence 1101, Ap
Sequence 12753, A
Sequence 203, App
Sequence 203, App
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US-09-949-016-14849
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US-09-949-001-477
US-08-249-687C-1
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Conservative:
Mismatches:
Indels:
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US-09-949-016-1011
US-09-949-016-3107
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US-09-539-601-25
US-09-539-601-31
US-08-971-036-1
US-09-096-570-1
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US-09-539-601-4
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US-09-539-601-1
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 Percent Similarity:
Best Local Similarity:
, ORGANISM: Human
US-09-949-016-15868
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Pred. No.:
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-MODEL=frame+ plr.model -DEV=Xlh
-G=/CGM2_1/USPTO_spool_h/US09581651/runat_07112005_092224_28801/app_query.fasta_1.1834
-G=/CGM2_1/USPTO_spool_h/US09581651/runat_07112005_092224_28801/app_query.fasta_1.1834
-DEJESUE-G PAtentes NA -QEVMT=fastap -SUFFIX=plr.min=0.1 -LGOPCL=0
-LIST=FA -DOCALIGN=200 -THR SCORE=pcr -THR MAX=100 -THR MIN=0 -ALIGN=15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 15868, A Sequence 5, Appli Sequence 38, Appli Sequence 1289, Appli Sequence 16, Appli Sequence 16, Appli Patent No. 5455158 Patent No. 5455158 Sequence 1, Appli Sequence 1, Appli Sequence 10, Appli Sequence 10, Appli
                                                                                      November 11, 2005, 08:49:16; Search time 20.1307 Seconds (without alignments) 1625.652 Million cell updates/sec
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/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
             GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                               nucleic search, using frame_plus_p2n model
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US-08-153-799-5
US-09-220-132-38
US-09-023-655-1289
PCT-US95-09819-6
US-08-25-569-16
US-08-25-569-16
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US-08-551-356-1
PCT-US93-12687-1
US-09-539-601-10
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Ygapop 10.0 , Y
Fgapop 6.0 , F
Delop 6.0 , D
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RESULT 2

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19-00-153-799
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; Sequence 1289, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
APPLICANT: Susan G. Stellhamer
APPLICANT: Jeffrey J. Sellhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
TITLE OF INVENTION: EXPRESSION
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1508
CORRESPONDENCE ADDRESS:
STREET: 3174 FORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
                                                                          Length:
Matches:
Conservative:
Mismatches:
Indels:
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Matches:
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Mismatches:
Indels:
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         COTATION: 1..186 CTHER INFORMATION: /function= "LINKER US-08-153-799-5
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NAME/KEY: misc_feature
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Best Local Similarity:
Query Match:
                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
                                                                Alignment Scores:
Pred. No.:
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Aa52131 Human low
Ab82689 Fibronect
Ab167540 Thyroid c
Ab11082 Human bre
Acf03878 Human fib
Abx10391 DNA encod
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nucleotide sequence of human fibronectin 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. .1929
/*tag= a
/product= "fibronectin 1"
                                                                                                                                                                                                                                                                                                                                                                                                                                   ALIGNMENTS
                                                                                                   ABV78249
ABZ35825
ABX10068
ABS66462
AAS66462
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ADD93721
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ADN96854
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ABT11082
ACF03878
ABX10391
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   ADS17488;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Key
    Ads17488 Nucleotid
Adr97657 Human fib
Add18477 Human pro
Aax81299 Human mig
Adr67201 Human bla
                                                                     November 11, 2005, 08:30:56; Search time 65.5686 Seconds (without alignments) 1805.663 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
            GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                   nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                    of hits satisfying chosen parameters:
                                                                                                                                                                                                                 4390206 seqs, 2959870667 residues
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ADR97657
ADD18477
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ADR67201
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
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The specification describes a method and system for accurately presenting a state of a cell. The method comprises obtaining a time-lapse profile of the cell by time-lapse monitoring of a gene state associated with at least one gene derived from the cell, and presenting the time-lapse profile. The gene comprises a transcription control sequence, and the gene state includes expression of the gene. The method and system are useful presenting a state of a cell. The method can allow the elucidation of key protein-protein interactions suitable for targeting by drug screening protocols. The method is useful for diagnosing or treating a classe, e.g. cancer, infectious disease due to viruses or bacteria, allergy, hypertension, hyperlipsemia, diabetes, cardiac disease, cerebral infarction, dementia, obesity, arteriosclerosis, infertility, mental and nervous diseases, cataract, progeria, or hypersensitivity to ultraviolet radiation. The present sequence encodes human fibromectin l. Bovine fibromectin was used as a candidate for an acting substance. The actin acting substance was used with transfection reagents and amplified the course of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1867 ATTTCCAAGTACATTCTCAGGTGGAGACCTGTGAGTATCCCACCAGAAACCTTGGATAC 1926
                                                                                                                                                                Presenting a state of a cell, useful for diagnosing and treating a disease, e.g. cancer, infectious disease, allergy, diabetes, dementia, obesity, infertility, or cataract, comprises obtaining a time-lapse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 IleSerLysTyrIleLeuArgTrpArgProValSerIleProProArgAsnLeuGlyTyr
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                                             (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
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                                                                               Uchimura E,
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            04-MAR-2003; 2003JP-00057870.
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human; gene; ds; transfection efficiency; actin acting substance; extracellular matrix; fibronectin 1; gene introduction reagent.

/product= "Pibronectin protein"

WO2004079332-A2

Location/Qualifiers 1. 1929 /*tag= a

Bapiens

Homo

Human fibronectin 1 DNA, an actin acting substance SegID 1.

(first entry)

02-DEC-2004

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This invention relates to a novel composition and method for increasing the efficiency of introducing a target substance into a cell.

Specifically, it refers to the introduction of DNA (e.g. the gene of interest to be transfected), polypeptides, sugars or complexes thereof into a cell, and comprises an actin acting substance. The present invention describes the actin acting substance as an extracellular matrix protein, a variant or fragment thereof selected from fibronectin. Inminion or vitronectin. The composition further comprises a gene introduction creagent selected from cationic polymers, cationic lipids, and calcium phosphate, as well as a gold colloid particle that is contacted with the cell. The composition, kit, device or method is useful for increasing the efficiency of introducing a target substance into a cell and thus is useful in the fields of cell biology, genetic engineering and thus company.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Composition comprising an actin acting substance or an actin acting substance and a target substance, useful for increasing the efficiency of introducing a target substance into a cell and in cell biology or genetic engineering.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         prostate tissue; cancer diagnostic; cancer marker; prostate cancer; PCA; male cancer-related death; serum biomarker; tissue biomarker; cytostatic; gene therapy; prostate biopsy tissue; AMACR; alpha-methylacyl-coenzyme A racemase; diagnosing cancer; cell growth;
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Conservative:
Mismatches:
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                                                                                                                                                                                                                                                                                                            Claim 4; SEQ ID NO 1; 347pp; English.
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                                              03-MAR-2004; 2004WO-JP002696
                                                                             04-MAR-2003; 2003JP-00057869
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                                                                                                                                                                           WPI; 2004-677173/66.
P-PSDB; ADR97658.
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Best Local Similarity:
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             16-SEP-2004
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AX003229 Sequence
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CQ875538 Homo sapi
AC12462 Homo sapi
AC127509 Rattus no
AC107509 Rattus no
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AC11512 Homo sapi
AC05722 Homo sapi
AC10572 Homo sapi
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Matches:
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Compositions and methods relating to ost
Patent: WO 02070737-A 42467 12-8EP-2002
Chondrogene Inc. (CA)
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Sequence 42467 from Patent WO02070737,
CQ697541 GI:42248968
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
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AC111687
AE016986
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AY070174
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AC023502
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CQ697541
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DEFINITION
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VERSION
KEYWORDS
SOURCE
ORGANISM
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AUTHORS
TITLE
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-MODEL=frame+ p2n.model -DEV=Xlh
-MODEL=frame+ p2n.model -DEV=Xlh
-Q=/cgn2_1/USPTO_spool h/US09581651/runat_07112005_092223_28778/app_query.fasta_1.1834
-Q=/cgn2_1/USPTO_spool h/US09581651/runat_07112005_092223_28778/app_query.fasta_1.1834
-DEV_ALIGN=ZOO -THE_SCORE=pct -THR_MAXE_100 -TRANS=human40.cdi -LIST=45
-UNITS=blts -START=1 -END=-1 -MATRIX=100 -THR_MIN=0 -ALIGN=15. MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HRAPSIZE=500 -MINLENS - MAXLEN=200000000
-USER=US09581651_@CGN_1_1 9936_@runat_07112005_092223_28778 -NCFU=6 -ICPU=3
-NO_WMAP -LARGEQUERY -NGS_SCORES=0 -WAXIT -DSPBICCK=100 -LONGICG
-DBV_TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPOREXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DBLOP=6 -DBLEXT=7
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CQ871828 Sequence
BD137021 Polypepti
                                                                                       November 11, 2005, 08:45:16; Search time 535.477 Seconds (without alignments) 1809.796 Million cell updates/sec
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               GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                   frame_plus_p2n model
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Listing first 45 summaries
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19 2002508119-A/1
19-MAR-2002
15-DEC-1998 JP 2000539133
16-DEC-1997 GB 9726539.1
6FTH LAWRENCE SCHOR, ANA MARIA SCHOR
CIZNIS/09,A61K38/00,A61P17/02,C07K14/78,C07K16/18,C12N5/10, PC
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(bases 1 to 2147)

Schor,S.L. and Schor,A.M.

Polypeptides, polymucleotides and uses thereof
Patent: JP 2002508179-A 1 19-MAR-2002;
UNIVERSITY OF DUNDEE

OS Homo sapiens (human)

PN JP 2002508179-A/1

PP 15-DEC-1998 JP 2000539133

PR 16-DEC-1997 GB 9726539.1
                                                                                                    Miyake,M.A., Yoshikawa,T.A., Uchimura,E.A. and Miyake,J.A.
Time-lapse cell analysis method
Satent: WO 2004079007-A 1 16-SEP-2004;
National Institute of Advanced Industrial Science and Tec hnology
(JP)
  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Polypeptides, polynucleotides and uses thereof.
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Mismatches:
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JP 2002508179-A/1.
Homo sapiens (human)
Homo sapiens
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QTTSSGSGPFTDVRAAVYQPQPHPQPPPYGHCVTDSGVVYSVGMONLKTGGNKKCERTSV
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GVNRYQCYCYGRGIGGNHCQPLQTYPSSSGPVEVFITETPSQPNSHPIQWNAPQPSHIS
KYILRNRPVSIPPRNLGY"
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Composition and method for increasing efficiency of introduction of target substance into cell
Patent: WO 2004079332-A I 16-SBP-2004;
National Institute of Advanced Industrial Science and Tec hnology
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GGYMLECVCLGNGKGEWTCKPIAEKCFDHAAGTSYVVGETWEKPYQGWMWVDCTCLGE
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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CQ871828 GI:52745858
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PAT 18-SEP-2002

RESULT 3 CQ871828 LOCUS DEFINITION

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ACCESSION VERSION KEYWORDS SOURCE

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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.
OM nucleic - nucleic search, using sw model
Run on: November 10, 2005, 22:29:25 ; Search time 7025 Seconds (without alignments) 11633.308 Million cell updates/sec
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Total number of hits satisfying chosen parameters: 68479088
Minimum DB seq length: 0 Maximum DB seq length: 200000000
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Database : EST:* 1: gb_est1:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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SUMMARIES	CR749316 CR749281 CR749281 BC078656 AKO90135 AKO90135 AKJ91752 BX386270 AV141008 BX386270 AV141008 BX402381 CR419594 BX417945 BX179452 AV140993 AV140993 AV140993 AV140834 AV140834 AV140834 AV140834 AV140834	AK054456
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ALIGNMENTS

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180 389 240 449 300 509 569 9 CGGTGGCTGTCAGTCAAAGCAAGCCCGGTTGTTATGACAATGGAAAACACTATCAGATAA ATCAACAGTGGGAGCGGACCTACGTAGGCAATGCGTTGGTTTGTACTTGTTATGGAGGAA GCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGACATGCTTTGACAAGTACA CAAACTTGGTGGCAACTTGCCTCCCGGTGCGGGCGTCTCTCCCCCCACCGTCTCAACATGC CAAACTTGGCGAACTTGCCTCCCGGTGCGGGCGTCTCTCCCCCCACCGTCTCAAACTTG TTAGGGGTCCGGGCCCCGGGCTGCTGCTGCTGGCCGTCCTGTGCCTGGGGGACAGCGGTGC CCTCCACGGGAGCCTCGAAGAGCAAGAGGCAGGCTCAGCAAATGGTTCAGCCCCAGTCCC cegrescrercaarscaascccesrrerarsacaarscaaracacrarcasara GCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACA Gaps 45; DB 3; Length 7777; IndelB .. Query Match
87.8%; Score 1885.8;
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US-10-956-157-4288

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Sequence 4288. Application US/10956157

Sequence 4288. Application US/10956157

Sequence 4288. Application US/10956157

GENERAL INFORMATION:

APPLICANT: Wyeth

APPLICANT: Wounts, William

TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES

FILE REFERENCE: 031896-043000 (AM 101081)

FILE REPERENCE: 031896-043000 (AM 101081)

CURRENT FILING DATE: 2004-10-04

NUMBER OF SEQ ID NOS: 319805

SOFTWARE PATENTIN Version 3.2

SEQ ID NO 4288

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SUMMARIES Description	93 Sequence 693, Sequence 9, R Sequence 12, Sequence 12, Sequence 11, Sequence 11, Sequence 21, Sequence 22, Sequence 824, Sequence 824, Sequence 65, Sequence 65, Sequence 82, Sequence 82, Sequence 65	17, 488, 305, 117, 117, 119, 440, 11, 11, 11,	Sequence 99,
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1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
34	34	33.8	33.8	33.8	33.6	33.4	33.4	33.2	33	33	33	32.8	32.8	32.8	32.8	32.8	32.6	32.6	32.6	32.4	32.4
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ALIGNMENTS



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OM nucleic - nucleic search, using sw model

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Run

1, 2005, 21:28:04 ; Search time 1571 Seconds
(without alignments)
11301.308 Million cell updates/sec

US-09-581-651D-3

Perfect score:

Sequence:

IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

9793542 seqs, 4134689005 residues

19587084 Total number of hits satisfying chosen parameters:

length: 0 length: 2000000000 sed sed Minimum DB Maximum DB

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database

Published Applications NA Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	3, Ap	Appl	App	Appl	Appl	Appl	App	Appl	Appl	\ppli	Appl	Appl	Appl	App1	Appl	Appl	App	Appl	App	Appl	App	Appl	App
Ę	4288,	70,	238,	49,	49,	75,	244,	51,	51,	8, 1	27,	53,	81,	62,	21,	72,	241,	77,	245,	78,	246,	74,	240,
Description	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
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	57-4288	01-70	00-238	20-49	35-49	-601-75	00-244	-194A-51	66-51	61-8	64-27	35A-53	287-436A-81	577A-62	49-21	01-72	00-241	01-77	600-245	601-78	00-246	-601-74	-600-240
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& Query Match	98.8	98.7	98.7	98.7	98.7	96.2	96.2	92.0	92.0	88.1	88.1	88.1	88.1	88.1	88.1	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0
Score	2120.6	2119.8	2119.8	2119	2119	2064.8	2064.8	1975.8	1975.8	1890.6	1890.6	1890.6	1890.6	1890.6	1890.6	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8
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Seguence 81, Appl	Sequence 249, App	Sequence 71, Appl	Sequence 242, App	Seguence 79, Appl	Sequence 247, App	Sequence 69, Appl	Seguence 237, App	Sequence 82, Appl	Sequence 250, App	Sequence 73, Appl	Sequence 239, App	Sequence 76, Appl	Sequence 243, App	Sequence 2, Appli	Sequence 6, Appli	Sequence 121, App	Sequence 135, App	Sequence 5, Appli	Sequence 8, Appli	Sequence 7, Appli	3,
Seg	Sed	Sed	Sed	Seg	Seg	Sed	Segn	Seg	Bed	Sed	Seg	Seg	Segn	Segn	Segn	Seg	Segn	Seg	Sed	Segr	Seg
601-81	600-249	601-71	600-242	601-79	600-247	601-69	600-237	601-82	600-250	601-73	600-239	601-76	600-243	817-2	841-6	965-121	700-135	841-5	841-8	841-7	392-3
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88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	88.0	87.9	87.9	87.9	87.9	87.9	87.9	87.9	85.7
1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1889.8	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1887.4	1839.6
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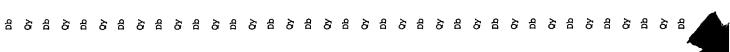
ALIGNMENTS

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APPLICANT: Wyeth
APPLICANT: Wyeth
APPLICANT: Wounts, William
AITLE OP INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
TITLE OP INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
TITLE OP INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
FURE REFERENCE: 031896-043000 (AM 101081)
CURRENT APPLICATION NUMBER: US/10/956,157
CURRENT FILING DATE: 2004-110-04
NUMBER OF SEQ ID NOS: 319805
SOFTWARE PATENTIN VERSION 3.2
SEQ ID NO 4288
LENGTH: 2127
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98.8%; Score 2120.6;
Best Local Similarity 99.8%; Pred. No. 0;
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             Sequence 4288, Application US/10956157; Publication No. US20050118625A1; GENERAL INFORMATION:
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; ORGANISM: Homo sapiens
US-10-956-157-4288
US-10-956-157-4288
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5.1.6 Compugen Ltd.	; Search time 7771 Seconds (without alignments) 12926.504 Million cell updates/sec	ававвавававававава 2147	991	B: 82156650				cted by chance to have a of the result being printed, score distribution.	Description	BX64060B Home sapi BX640875 Home sapi CR749211 Home sapi CR749211 Home sapi CR749211 Home sapi BC078656 Home sapi BC100030 Home sapi BC100030 Home sapi AK090135 Mus muscu AK090135 Mus muscu DQ039102 Home sapi DQ039102 Pome sapi DQ039102 Pome sapi BX38837 BX39837 BX380582 BX380582 BX391752 BX391752 BX391752 BX391752 BX386270 BX386270 AU141008 BX402381 BX402381 CK419594 170004245 BX417945 BW715855 UI-E-EJO- AU140971 AU140931
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8	OM nucleic - nucleic Run on: Dece	Title: US-09- Perfect score: 2147 Sequence: 1 caas	d:	Total number of hits	Minimum DB seq length: Maximum DB seq length:	Post-processing: Min Max Lis	Database : EST: 1 : 90 2 : 90 3 : 90 4 : 90 5 : 90 7 : 90 9 : 90 9 : 90 10 : 90	Pred. No. is the score greater that and is derived	* Result Query No. Score Match	2 1889 88.8 87.8 1885.8 87.8 1885.8 87.9 87.5 1885.8 87.9 87.9 87.9 87.9 87.9 87.9 87.9 87

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PNASYGQEALSQTTISTATPIRHRPRPYPPROGEELGIGHIPREDVYHLYPHGPGLN
RASYGGEALSQTTISTATPIRHRPRPYPPROGEELOFTUGHIR
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- nucleic search, using sw model OM nucleic

December Run on:

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US-09-581-651D-3 Perfect score: Title:

Sequence:

IDENTITY NUC Gapop 10.0 , Gapext 1.0 Scoring table:

4996997 segs, 3332346308 residues Searched:

9993994 Total number of hits satisfying chosen parameters:

length: 0 length: 2000000000 Minimum DB seq Maximum DB seq

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

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geneseqn1980s:* N_Geneseq_21:* 1: qeneseqn198

genesequ1990s:* genesequ2000s:* genesequ2001as:* genesequ2001as:* genesequ2002as:* genesequ2003as:* genesequ2003as:* geneseqn2003cs:* geneseqn2003ds:* geneseqn2004as:* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqn2005s:*

SUMMARIES

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	QI	AAX81299	ADR67201	ADQ38575	ADD18477	ADZ26738	ADQ38581	ACC72037	ADS17488	ADR97657	ADW44479	ADY55703	ADY32457	AEB56257	AEB78061	ADR66637	ADR65953	ACC00412	ADZ26740	ADP64998
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	Score	2147	2143.8	2119.8	2119	2085.6	2064.8	1975.8	1925.8	1925.8	1925.8	1925.8	1925.8	1925.8	1925.8	1890.6	1890.6	1890.6	1890.6	1890.6
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ALIGNMENTS

AAX81299 standard; cDNA; 2147 BP (first entry) 21-SEP-1999 AAX81299; AAX81299

Human migration stimulating factor (MSF) 1-alpha encoding cDNA.

Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha; 88.

Ното варіепв

WO9931233-A1.

24-JUN-1999

98WO-GB003766. 15-DEC-1998; 97GB-00026539. 16-DEC-1997;

(UYDU-) UNIV DUNDEE

Schor SL, Schor AM;

WPI; 1999-430039/36. P-PSDB; AAY28901.

Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.

Example 1; Fig 1; 86pp; English.

protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptiale can be used for modulating cell migration, healing a wound and for preventing scarring. The present sequence represents the nucleotide sequence encoding a human MSF1-alpha protein The invention provides a human migration stimulatory factor (MSF)

1921 GGCTGAAGACACACAAGAAATTAAGCAAATTGCACCTGGGCAACGACTCAGCT 1989 GGCTGAAGACACACTGAACACCTGGCAACACCTGGCAACACTCAGCTGGCAACACCTGGCAACACCTGGAACACCTGGAACACTCAGTGCAACACCTGGCAACACCTGGAACACCTGGAACACCTGAACACCTGAACACCTGCAACACCTGAACACCTACACACCACACACA
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/cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
/cgn2_6/ptodata/1/iaa/RE_COMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-09-016-36A-12

US-00-551-356A-2

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5455158-1

US-08-133-12687-2

US-08-133-120819-1

US-08-133-129-16

US-08-135-799-16

US-09-136-218-19

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US-09-136-218-19

US-09-136-218-19

US-09-391-104-19

US-09-391-104-19

US-09-391-104-19

US-09-949-016-512

US-09-949-016-512

US-09-949-016-7937

US-09-949-016-7937

US-08-948-488-14

US-08-948-18-14

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US-08-982-597A-22

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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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US-08-704-711A-19	US-09-521-220-19	US-09-391-104-20	US-09-949-016-6575	US-08-448-489-16	US-09-689-730-16	US-09-949-016-10629	US-08-982-597A-20	US-09-136-218-20	US-08-982-597A-21	US-09-136-218-21	US-08-717-169-2	US-09-228-901A-2	US-08-982-597A-18	US-09-136-218-18	US-08-840-062-5	US-08-982-597A-17	US-09-136-218-17
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7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.5	7.5	7.0	7.0	6.0	6.0	6.0	6.0	5.6	5.6	5.6
285.5	285.5	285.5	285.5	285.5	285.5	285.5	278	278	258	258	220	220	219.5	219.5	208	206	206
28	53	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

	1,	09	120	180	240	300	360
SULT 1 -09-961-403-1 Sequence 1, Application US/09961403 Sequence 1, Application US/09961403 Sequence 1, Application US/09961403 Sequence 1, Application US/09961403 Sequence 1, Application US/09961403 GENERAL INFORMATION: APPLICANT: HEADLER, BERNARD APPLICANT: KRETT, BERTHOLT APPLICANT: KRETT, BERTHOLT APPLICANT: MISTRAGER, ELKE APPLICANT: MISTRAGER, ELKE APPLICANT: MISTRAGER, ELKE APPLICANT: MISTRAGER, ELKE APPLICANT: MISTRAGER, ELKE APPLICANT: SCOTTI, SIMONE TITLE OF INVENTION: METHOD FOR IN VITRO DIAGNOSIS OF ENDOMETRIOSIS FILE REPERENCE: SCH-1789 CURRENT FILING DATE: 2001-09-25 NUMBER OF SEQ ID NOS: 15 SOFTWARE: PATENTING PATE: 2.1 SLOGI IN O 1 LINGRARE: PATENTING PATE: 2.1 SLOGI IN O 2 LENGTH: 2386 TYPE: PRT ORGANISM: HOMO Sapiens	Query Match 97.5%; Score 3595.5; DB 2; Length 2386; Best Local Similarity 97.2%; Pred. No. 2.6e-301; Matches 629; Conservative 1; Mismatches 2; Indels 15; Gaps	1 MLRGPGPGLLLLAVQCLGTAVPSTGASKSKRQAQQMVQPQSPVAVSQSKPGCYDNGKHYQ	61 INQQMERTYLGNALVCTCYGGSRGFNCESKPEAEETCFDKYTGNTYRVGDTYERPKDSMI	121 WDCTCIGAGRGRISCTIANRCHEGGOSYKIGDTWRRPHETGGYMLECVCLGNGKGEWTCK	181 PIAEKCFDHAAGTSYVVGETWEKPYQGWMWVDCTCLGEGSGRITCTSRNRCNDQDTRTSY	241 RIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSGSGPFTDVRAAVYQPQPHP	301 OPPPYGHCVTDSGVVYSVGMQWLKTQGNKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPC
RESULT 1 Sequence 1, A Sequence 1, A GENERAL INFOR APPLICANT: APPL	Query Ma Best Loc Matches						
RESULT US-09- Paten GENE APP APP APP APP APP APP APP APP APP AP	Sag	g 4	දු දු	ර් සි	දු දු	è 8	ò

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CLASSIPICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/349,762
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APPLICATION NUMBER: US/07/998,271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 98105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                VLPFTYNDRT-
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US-08-551-356-2
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                                -----DSTTSNYEQDQKYSFCTDHTVLVQTRGGNSNGALC
                                                  361 VLPFTYNGRTFYSCTTEGRODGHLWCSTTSNYEQDQXYSFCTDHTVLVQTQGGNSNGALC
                                                                                              HFPFLYNNHNYTDCTSEGRRDNMKWCGTTQNYDADQKFGFCPMAAHEEICTTNEGVMYRI
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                                                                                                                                                                                                                                                                                        PLOTYPSSSGPVEVFITETPSQPNSHPIQWNAPQPSHISKYILRWRP 632
                                                                                                                                                                                                                                                                                                      Sequence 12. Application US/09016366A
; Patent No. 5955431
; GENERAL INFORMATION:
APPLICANT: Stevens, Richard L.
APPLICANT: Huang, Chifu
ITLE OF INVENTION: MAST CELL PROTEASE PEPTIDE
ITLE OF INVENTION: INHIBITORS
NUMBER OF SEQUENCES 65
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: MA
COUNTRY: U.S.A.
ZIP: 02210-2211
COMPUTER READBALE FORM:
MEDIUM TYPE: DISKette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEG for Windows Version 2.0
SARENY APPLICATION DATA:
APPLICATION NUMBER: US/09/016,366A
FILING DATE: January 30, 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Plumer, Elizabeth R.
REGISTRATION NUMBER: 36,637
REFERENCE/DOCKET NUMBER: B0801/7093
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-720-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/037,090
FILING DATE: 05-FEB-1997
ATTORNEY AGENT INFORMATION:
NAME: Plumer, Elizabeth R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 12: SEQUENCE CHARACTER.ISTICS: LENGTH: 2386 amino acids TYPE: amino acid STRANDEDNESS: single
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Best Local Similarity 96.8
Matches 626; Conservative
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                                                                                  61 INQQWERTYLGNVLVCTCYGGSRGFNCESKPEAEETCFDKYTGNTYRVGDTYERPKDSM1
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                                                             61 INQQWERTYLGNALVCTCYGGSRGFNCESKPEAEETCFDKYTGNTYRVGDTYERPKDSMI
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Patent No. 5830700
GENERAL INFORMATION:
APPLICANT: Irani, Meher
TITLE OF INVENTION: HYBRID CROSS-LINKING PROTEINS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: ZymoGenetics, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/551,356
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December 1, 2005, 18:06:49; Search time 405 Seconds (without alignments) 9423.271 Million cell updates/sec
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1: /cgn2_6/ptodata/1/ina/1 COMB.seq:*
2: /cgn2_6/ptodata/1/ina/6_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/B_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/RB_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/RB_COMB.seq:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
                                                                                                   OM nucleic - nucleic search, using sw model
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Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 200000000
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2147
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Perfect score:
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Description	Sequence 135, App	Sequence 1, Appli	38, Ap	1285	9	9.	Datout No Edecies	8. Appl	8, Appl	Ŋ	345	966	704,	346,	4758,	12446,	165(28,		33,	m	33,
ID	US-09-566-921-135	12687-	-38	19-023-655-1	09819-		7	US-07-537-250A-8	-08-145-061-	US-08-153-799-5	-09-799-451-3	9	US-09-949-016-704	US-09-799-451-346	US-09-949-016-4758	09-949-	-016 - 1	569-2	US-08-826-885-28	US-08-457-304A-33	US-08-456-701A-33	US-08-684-932A-33
h DB										9		===	**	10	10	S	S	S	S	4	4 2	4
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* Query Match	87.9	85.1	81.2	81.2	81.2	81.1	- ا	31.3	П	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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Sequence 29, Appl Bequence 29, Appl Bequence 2066, Appl Bequence 23, Appl Sequence 23, Appl Sequence 23, Appl Bequence 30, Appl Sequence 300, Appl Sequence 30391, A Sequence 13808, A Sequence 18, Appl Sequence 18, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 27, Appl Sequence 17, Appl	ISBASB	Length 8044; Indels 45; Gaps 1; CCCCACCGTCTCAACATGC 60
US-08-259-569-29 US-08-826-885-29 5455158-9 US-09-949-016-2066 US-08-259-569-23 US-08-259-569-23 US-08-259-569-30 US-08-826-885-33 US-08-826-885-30 US-08-826-885-30 US-09-949-016-70165 US-09-949-016-1383 US-09-949-016-1383 US-09-949-016-1383 US-09-949-016-1383 US-08-826-885-18 US-08-826-885-18 US-08-826-885-18 US-08-826-885-18 US-08-826-885-18 US-08-826-885-18 US-08-826-885-18 US-08-826-885-18	ALIGNMENTS //09566921 F. W. W. EXPRESSED IN ALZHEIMER'S DI US/09/566,921 05-05 ID NO. 6682888 427813.14	### ##################################
3.44 3.44 3.44 3.25 3.10 3.10 3.10 3.10 3.10 3.10 6.9 9.20 9	ation US Jeanne , Debora , Carla , GENES , CENES , LO024 , 2000- , 2000- , 2000- , 138 gram , ens	87.9%; arity 97.4%; onservative CTTGGTGGGAACTTC CTTGGTGGCAACTTC GGGTCCGGGGCCCGG
255 266 277 287 298 310 311 320 331 332 332 333 344 655 444 655 445 655 445 665 66	1 566-921-13 ence 135, mL No.668 RAL INPORM: LICANT: E LICANT: E LE REFERENC REWT APPLI REWT FILLIN REWT Query Match Best Local Similarity Matches 1946; Conser CAAACTTGG	
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935, App
1490, App
167, App
1347, Ap
4577, Ap
2444, Ap
13808, A
12383, A
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                  Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Seq
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Sequence 135, Application US/09566921

Patent No. 668288

GENERAL INFORMATION:

APPLICANT: Loring, Jeanne F.

APPLICANT: Tingley, Debora W.

APPLICANT: Edwards, Carla M.

TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE

FILE REPERENCE: PA-0024 US

CURRENT APPLICATION NUMBER: US/09/566,921

CURRENT FILING DATE: 2000-05-05

SOUTHWARE: PERL Program

SOUTHWARE: PERL Program

SEQ ID NO 135

LENGTH: 8044
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OTHER INFORMATION: Incyte ID No. 6682888 427813.14
                                                                                                                                                                                                                                                                                                        US-09-949-016-935
US-09-035-65-1490
US-09-023-655-1440
US-09-949-016-4577
US-09-949-016-13808
US-09-949-016-12383
US-08-401-12383
US-08-611-729A-7
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                                US-06-392-678-33
US-08-457-304A-33
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US-09-023-655-996
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ORGANISM: Homo sapiens
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Best Local Similarity:
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Sequence 1, Appli
Sequence 1289, Appl
Sequence 6, Appli
Sequence 16, Appli
Sequence 16, Appli
Sequence 16, Appli
Parent No. 5455158
Parent No. 5455158
Sequence 8, Appli
Sequence 8, Appli
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Sequence 1, Appli
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                                                                                                                               ; Search time 664.314 Seconds (without alignments)
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/cgn2_6/ptodata1/ina/6A_COMB.seq:*
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/cgn2_6/ptodata1/ina/PCTUS COMB.seq:*
                  GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                              frame_plus_p2n model
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US-08-551-356-1
PCT-US93-12687-1
US-09-023-655-1289
PCT-US95-09819-6
US-08-259-569-16
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                Copyright
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- nucleic search, using sw model OM nucleic

November 10, 2005, 18:42:04 ; Search time 1153 Seconds (without alignments) 11023.144 Million cell updates/sec Run on:

US-09-581-651D-3 2147 Title: Perfect score:

Sequence:

Scoring table:

IDENTITY NUC Gapop 10.0 , Gapext 1.0

8780412 Total number of hits satisfying chosen parameters:

4390206 seqs, 2959870667 residues

Searched:

seq length: 0 seq length: 200000000 Minimum DB Maximum DB

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

N_Geneseq_16Dec04: geneseqn1990s:* geneseqn1980s:* Database

geneseqn2003cs:* geneseqn2003ds:* geneseqn2001bs:* geneseqn2003as:* geneseqn2002as:* geneseqn2003bs:* geneseqn2004as: geneseqn2001as: geneseqn2000s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqn2004bs:

	Description	Aax81299 Human mig	Adr67201 Human bla	Adq38575 Human SNP	Add18477 Human pro	Adq38581 Human SNP	Acc72037 BCU0770 g	Ads17488 Nucleotid	Adr97657 Human fib	Adr66637 Human pro	Adr65953 Human pro	Acc00412 Human cel	Adp64998 Human fib	Adg89565 Human fib	Human	Adr67200 Human bla	Adg38578 Human SNP	Adq38582 Human SNP	Adq38583 Human SNP	Adq38577 Human SNP	Adq38586 Human SNP
SUMMARIES	ID	AAX81299	ADR67201	ADQ38575	ADD18477	ADQ38581	ACC72037	ADS17488	ADR97657	ADR66637	ADR65953	ACC00412	ADP64998	ADG89565	ADQ29601	ADR67200	ADQ38578	ADQ38582	ADQ38583	ADQ38577	ADQ38586
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de	Query Match	100.0	99.9	98.7	98.7	96.2	92.0	89.7	89.7	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.0	88.0	88.0	88.0	88.0
	Score	2147	2143.8	2119.8	2119	2064.8	1975.8	1925.8	1925.8	1890.6	1890.6	1890.6	1890.6	1890.6	1890.6	1890.6	1889.8	1889.8	1889.8	1889.8	1889.8
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ADQ38579 ADQ38574 ADQ38574 ADQ38576 ADQ38586 ADQ38580 AAIS7803 AAIS7802 AAIS7802 AAIS7804 AAIS7804 AAIS9589 AAIS9589	AAI59590 ACD06170 AACB9889 AAQ70009 AAS86466 ACN37820 AAA35009 ADD06169 ADR90518
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8013 8155 8226 8278 8331 7795 7795 8044 8064 8062 8137 8137 8066	8066 7361 8039 7803 8216 7677 4860 6988
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22222222222222222222222222222222222222	333 338 444 544 5443 5443
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ALIGNMENTS

Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha, 88. Human migration stimulating factor (MSF) 1-alpha encoding cDNA. AAX81299 standard; cDNA; 2147 BP. 98WO-GB003766. 97GB-00026539. (first entry) (UYDU-) UNIV DUNDEE. 15-DEC-1998; Homo sapiens WO9931233-A1 16-DEC-1997; 21-SEP-1999 24-JUN-1999 AAX81299; AAX81299

Schor SL, Schor AM; WPI; 1999-430039/36. P-PSDB; AAY28901. Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.

Example 1; Fig 1; 86pp; English.

The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. The present sequence represents the nucleotide sequence encoding a human MSF1-alpha protein

Sequence 2147 BP; 575 A; 512 C; 575 G; 485 T; 0 U; 0 Other;



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November 10, 2005, 20:50:35 ; Search time 9269 Seconds (without alignments) 11223.794 Million cell updates/sec
                                                                                                                                                                                     9416466
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                4708233 seqs, 24227607955 residues
                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                         OM nucleic - nucleic search, using sw model
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Maximum Match 100%
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Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 200000000
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2147
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2: 9b htg:*

3: 9b ow:*

3: 9b ow:*

3: 9b pl:*

9b pl:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	BD137021 Polypepti	AX003229 Sequence		CQ875358 Sequence	AJ535086 Homo sapi	BX538045 Homo sapi	CQ871810 Sequence			CQ833991 Sequence		BX640608 Homo sapi	BX640802 Homo sapi	BX649182 Homo sapi	BX640875 Homo sapi		BX640731 Homo sapi	AR454662 Seguence	AX281712 Sequence
	ID	BD137021	AX003229	HSA276395	CQ875358	HSA535086	HSM806214	CQ871810	CQ871828	AB191261	CQ833991	CQ875357	HSM806653	HSM806901	HSM806902	HSM806992	HSM804082	HSM806805	AR454662	AX281712
	DB	9	9	σ	9	σ	σ	9	9	σ	9	9	σ	σ	σ	σ	σ	σ	ø	9
	Query Match Length DB	2147	2147	2147	2358	2192	4321	1929	1929	7753	8027	8027	7868	7951	7951	8411	7502	8042	8044	8044
de.	Query Match	100.0	100.0	100.0	99.9	97.1	96.1	89.7	89.7	88.1	88.1	88.1	88.0	88.0	88.0	88.0	87.9	87.9	87.9	87.9
	Score	2147	2147	2147	2143.8	2084	2063.4	1925.8	1925.8	1890.6	1890.6	1890.6	1889	1889	1889	1889	1887.4	1887.4	1887.4	1887.4
	Result - No.	-	7	e	4	2	9	7	8	6	10	11	12	13	14	15	16	17	18	19

AL832202 Homo sapi	BX537590 Homo sapi	Homo	BX538018 Homo sapi	BX640803 Homo sapi	AR051657 Sequence	AR274901 Sequence	AR380744 Sequence	AX277596 Sequence	AX335368 Sequence	X02761 Human mRNA	A14133 Fibronectin	AR034630 Seguence	E01162 cDNA encodi	I70110 Sequence 16	AR364992 Sequence	CQ715726 Sequence	BC051082 Mus muscu	AX402055 Seguence	X15906 Rat mRNA fo	BV178397 sqnm10026	U42404 Human fibro	CQ731571 Sequence	BC072841 Xenopus 1	M77820 Xenopus lae	BX640999 Homo sapi	
9 HSM803509	9 HSM806267	9 HSM806170	9 HSM806171	9 HSM806903	6 AR051657		6 AR380744	6 AX277596	6 AX335368	9 HSFIB1	6 A14133	6 AR034630	6 E01162	6 I70110	6 AR364992	6 CQ715726	10 BC051082	6 AX402055	10 RNFIBRON	11 BV178397	9 HSU42404	6 CQ731571	5 BC072841	5 XELFBRNCT	9 HSM807162	
7544	8320	8030	8035	8421	7803	7679	7680	7680	7680	7680	7705	7705	7705	7705	7705	6816	3059	8329	8329	7323	1139	2409	8313	8216	7299	
87.8	87.8	87.8	87.8	87.8	85.1	81.2	81.2	81.2	81.2	81.2	81.1	81.1	81.1	81.1	81.0	72.1	68.1	9.99	9.99	58.8	47.9	46.1	45.4	45.3	43.8	
1885.8	1885.8	1884.2	1884.2	1884.2	1826.8	1743.4	1743.4	1743.4	1743.4	1743.4	1740.2	1740.2	1740.2	1740.2	1738.6	1547	1461.8	1429.8	1429.8	1263	1027.8	9.066	975.4	972.2	940	
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	

ALIGNMENTS

RESULT 1 BD137021	
LOCUS	BD137021 2147 bp DNA linear PAT 18-SEP-2002
DEFINITION	ides, polynucleo
ACCESSION	BD13/021
VERSTON	BD137021.1 G1:23231966
KEYWORDS	JP 2002508179-A/1.
SOURCE	Homo sapiens (human)
ORGANISM	
	Chordata;
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 2147)
AUTHORS	Schor, S.L. and Schor, A.M.
TITLE	Polypeptides, polynucleotides and uses thereof
JOURNAL	Patent: JP 2002508179-A 1 19-MAR-2002;
	7
COMMENT	
	-
	PD 19-MAR-2002
	15-DEC-1998 JP 200
	PC C12N15/09, A61K38/00, A61P17/02, C07K14/78, C07K16/18, C12N5/10, PC
	C12P21/08,
	PC C12Q1/68, G01N33/574, C12N15/00, A61K37/02, C12N5/00 CC
	Polypeptides, polynucleotides and uses thereof. FH Key
	Location/Qualifiers
	Bource
	FT /organism='Homo sapiens (human)'.
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	/organism="Homo sapiens"
	/mol_type="genomic DNA"
	/db xref="taxon:9606"
ORIGIN	
Query Match	100.08;
Bebt Docal Sim	TOU.Of; FIEL. NO. U;
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CAMACTIGGGGGAACTIGGCGGGGGGGGGGGGGGGGGGGGGGG	

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                                                                                                                                                                                                    scrofa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-Human colon endothel primary cell culture;

TISSUE-Human colon endothel primary cell culture;

TISSUE-Human colon endothel primary cell culture;

A Bloocker H., Boecher M., Mewes H.W., Well B., Amid C., Osanger A.,

B Bloocker H., Boccher M., Memann S.,

L Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.

R BMBL; BX38045; CAD97984.1; -.

R BSPS; Q96KP7; IFBR.

R GO; GO:0005576; C:extracellular; IEA.

R InterPro; IPR000639; EdF like.

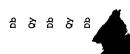
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R PFam; PF000099; fn1; 9.

R PFam; PF0000995; FN TYPe_II; 2.

R SWART; SW00059; FN 1; 9.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
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01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
01-OCT-2003 (TrEMBLrel. 26, Last annotation update)
Hypothetical protein DKFZp686B18150.
Name=DKFZp686B18150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length:
Matches:
Conservative:
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                              FINC NOTVI
090X02
090X02
090885
060P16
060P1317
060PT317
090YBS
090PWS
080PWS
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Q9W7L6
Q9W63S
Q95JA4
MM02 RABIT
Q99KD0
Q99E1S
MM02 MOUSE
                                                                                                                                                                                                                                                                   MMO9_RABIT
                                                                                                                                                                                                                                                                                                   MM02 CHICK
MM02 HUMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE, PS00022; EGF 1; UNKNOWN 1.
PROSITE, PS01253; FIBRONECTIN 1; 9.
PROSITE, PS00023; FIBRONECTIN 2; 2.
           Q6MZM7
Q8C6J7
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97.19%
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2330
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1496
961
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Q7Z391
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-MODEL=frame+ n. 12p. model - DEV=x1h
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                                                                         November 11, 2005, 03:57:22; Search time 199.5 Seconds (without alignments) 11021.895 Million cell updates/sec
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                                                                                                                      Description
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Q68dt4
Q62025
Q62025
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P01276
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091740 3
093405 1
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            GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                      - protein search, using frame_plus_n2p model
                                                                                                                                                                                                                                                         of hits satisfying chosen parameters:
                                                                                                                                                                                                                                    1612378 segs, 512079187 residues
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Q6MZF4
Q6MDZ4
Q6N025
FINC HUMAN
Q6NDNG
Q6MZU5
Q6MDP9
FINC_MOUSE
FINC_MOUSE
FINC_BAT
FINC_BAT
FINC_BAT
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PINC XENLA
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Maximum Match 100%
Listing first 45 summaries
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
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1: uniprot_sprot:*
2: uniprot_trembl:*
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Maximum DB seq length: 200000000
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Perfect score:
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                                                       nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Database :
                                                                                                                                            Sequence:
                                                                                                                                                                                                                                   Searched:
                                                                            Run on:
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Qy 1023 CTGAAGACACAAGGAAATAACCAATGCTTTGCACGTGCCTGGGCAACGGAGTCAGCTGC 1082 Db 415 LeuLysThrGlnGlyAsnLysGlnMetLeuCysThrCysLeuGlyAsnGlyValSerCys 434 Qy 1083 CAAGAGACAGTGAACCCAGACTTACGTGGCAACTCAAATGGAGAGCCATGTGTTA 1142 Db 435 GlnGluThrAlaValThrGlnThrTyrGlyGlyGaySrAsnGluGluProCysValLeu 454 CATTCACCTACAAAGGACGACGAGGACG		Qy 1218 GACCACACTGTTTGGTTCAGACTCGAGGGAATTCCAATGGTGCCTTGTGCCACTTC 1277 b 495 AspHisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGlyAlaLeuCysHisPhe 514 Qy 1278 CCCTTCTATACAACACACACACACTGATTACACTGATTGCACTTCTGAGGGCAGAAGAGACAAC 1337	515 ProPheLeuTyrAsnAsnHisAsnTyrThrAspCysThrSerd1uG1yArgArgAspAsn 53 1338 ATGAAGTGGGGCCACACAGAACTATGATGCGACCAGAAGTTTGGCTTCTGCCC 13	Qy 1398 ATGGCTGCCCACGAGGAAATCTGCAATCAATGAAGGGTCATGTACCGCATTGGAAATT 145 / 1	1518 CGTGGGGAATGGACATGCCTACTGCGGGTCGTGGGGTGTTGTTGATGAC 1518 CGTGGGGAATTGCCTACTCGCAGCTTCGAGATTGTTGATGAC 1518 LH	Oy 1578 ATCACTTCAATGTGAACGACATTCCACAACGTCATGAAGAGGACACATCATCAACACGTCATGAAGAGGACACATCACACATCACACACA	635 CysThrCysPheGlyGlnGlyArgGlyArgTrpLysCysAspProValAspGlnCysGln 1698 GATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGAGAAGTATGTGCATGGT	OY 1758 GTCACATACCAGTGCTACTGCTATGGCGTGGCATTGGGGGATTGCCAACCTTA 1917	695 GlnThrTyrProSerSerSerGlyProValGluValPhelleThrGluThrProSerGln 1878 CCCAACTCCCACCCCATCCAGTGGAATGCACCACAGCCATCTCAAGTTCCAAGTACATT	Db 715 ProAsnSerHisProII	SULT 2 MZF4 Q6MZF4 Q6MZF4;
Best Local Similarity: 97.194 Mismatches: 4 4 4 4 4 4 5 5 5 5	a AGGGTCCGGGGCCCGGGCTGCTGCTGCCGTCCAGTGCCTGGGGACAGCGGTGCCCCCCCC	SerThrGlyAlaSerLy8SerLy8ArgGinAlaGlnMetValGinFroGlnSerPro GTGGCTGTCAGTCAAAGCAAGCCCGGTTGTTATGACAATGGAAAACACTATCAGATAAAT	243 CAACAGTGGAACCTACCTAGGCAATGCGTTGGTTTGTTTG	363 GGGAACACTTACCGAGTGACACTTATGAGCGTCCTAAAGACTCCATGATCTGGGAC 422 	215 CysThrCyslleGlyAladlyArgdlyArglleSerCysThrIleAlaAshArgCysHis 234 483 GAAGGGGTCAGTCCTACAACATTGGTGACCTCGGAGGAGACCACATGAGACTGGTGGT 542 235 GluGlyGlyGlyGlnSerTyrLysIleGlyAspThrTrpArgArgProHisGluThrGlyGly 254	543 TACATGTTAGAGTGTGTGTCTTGGTAATGGAAAAGGAGAATGGACCTGCAAGCCCATA 602		723 ATCACTTGCACTTCTAGAAATAGATGCAACGATCAGGACACACAAGGACATCCTATAGAATT 782 	3 GGAGACACCTGGAGCAAGAATAATCGAGGAAACCTGCTCCCAGTGCATCTGCACAGGC	843 AACGGCCGAGGAGTGTGAAGTGTGACACCTCTGTGCAGACCACATCGAGGCA 902	375 SerdiyProPhethrAspValArgAlaAlaValTyrdinProdinProdinProdinProdinPro 394 963 CCTCCTATGGCCACTGTGACAGACAGTGGTGTGTGGTCTACTCTGTGGGATGCAGTGG 1022



us-09-581-651d-3.n2p.rpr

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-FGAPEXT=7 -XGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
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                                                                                                      November 11, 2005, 06:14:58; Search time 42 Seconds (without alignments) 9837.019 Million cell updates/sec
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                                                                                                                                                                                                                   Description
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                     - protein search, using frame_plus_n2p model
                                                                                                                                                                                                                                                                                                                                                                                                        of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                      283416 seqs, 96216763 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SUMMARIES
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Maximum Match 100%
Listing first 45 summaries
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Fgapop 6.0 , Fgapext
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В	gelatinase B (EC 3	ш	fibronectin - chic	mannose receptor p	mannose receptor p	furin (EC 3.4.21.7	zonadhesin - mouse	DELTA-like 1 - mou	phospholipase A2 r	mannose receptor,	hypothetical prote	secretory phosphol	secretory phosphol	notch protein homo	furin (EC 3.4.21.7	adhesive plague pr	notch protein homo	crumbs protein - f	C-Delta-1 - chicke	phospholipase A2 r	notch-1 protein -	hypothetical prote	probable laminin a	transmembrane prot	MEGF8 protein - hu	phospholipase-A(2)	notch protein - fr	suface antigen - P	hypothetical prote	heparan sulfate pr
152580	JC1456	A34458	A29355	A48925	A36563	A43434	T42215	I48324	A49707	T42710	T22674	B56395	A56395	S18188	T43251	A56175	A40043	A35672	150719	A53210	A46019	T23433	T37316	842612	T00209	848719	A24420	T31687	T18649	S18252
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294.5	294.5	285.5	228.5	211	207	206.5	204	203.5	200	195.5	188.5	185.5	185.5	185.5	184	183	182	180.5	179.5	179.5	177.5	176.5	176.5	176	175.5	174.5	174.5	174	173	171.5
15	16	17	18	19	20	c 21	22	23	24	25	26	27	28	29	c 30	31	32	33	34	35	36	37	38	39	c 40	41	42	43	44	45

fibronectin precursor [validated] - human
NiAlternate names: fibronectin splice form ED-A
C;Spaes: Homo sapiens (man)
C;Date: 27-Nov-1985 #sequence revision 31-Mar-1993 #text change 09-Jul-2004
C;Accession: A26460; A26284; S03917; A24854; A24476; A91008; A93529; A21011; A90495; A22
R;Dean, D.C.; Bowlus, C.L.; Bourgeois, S.
Proc. Natl. Acad. Sci. US.A. 84, 1976-1880, 1987
A;Title: Cloning and analysis of the promoter region of the human fibronectin gene.
A;Reference number: A26460; MUID:87175578; PMID:3031656

A;Accession: A26460
A;Molecule type: DNA
A;Molecule type: DNA
A;Molecule type: DNA
A;Molecule type: DNA
A;Rosaciues: 1-49 < DNA
A;Cross-references: UNIPROT: P02751; UNIPROT: Q14327; GB:MI5801; NID:g182686; PIDN:AAA5337
A;Cross-references: UNIPROT: P02751; UNIPROT: Q14327; GB:MI5801; NID:g182686; PIDN:AAA5337
B;Oldberg, A.; Ruoslahti, E.
A;Stockeronce Chem. 261, 2113-2116, 1986
A;Title: Evolution of the fibronectin gene.
A;Reference number: A26284; MUID:86111901; PMID:3003095

A;Rocession: As6284
A;Molecule type: DNA
A;Residues: 1447-1540 < DNA
A;Residues: 1447-1540 < DNA
A;Residues: 1447-1540 < DNA
A;Residues: 1447-1540 < DNA
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A;Residues: 1467-1540 < DNA
A;Residues: 167-1540 < DNA
A;Residues: 167-1540 < DNA
B;Residues: 167-1540 < DNA
B

ED-B

A; Molecule type: DNA
A; Residues: 1594-1767, V, (1769-1783 < PAO>
A; Cross-references: EMBL: X07718; NID: g31402
A; Note: the authors translated the codon AAC for residue 1631 as Asp
R; Vibe-Pedersen, K.; Magnusson, S.; Baralle, F.E.
FRBS Lett. 207, 287-291, 1986

A;Title: Donor and acceptor splice signals within an exon of the human fibronectin gene: A;Reference number: A24854; MUID:87030929; PMID:3770201 A;Accession: A24854

Mon Nov 14 10:15:17 2005

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R;Garcia-Pardo, A.; Pearlstein, E.; Frangione, B.
J. Blol. Chem. 288, 12670-12674, 1983
A;Title: Primary Etructure of human plasma fibronectin.
A;Reference number: A92398; MUID:84032463; PMID:6630202
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A/Rolecule Type: MRNA
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                           A;Residues: 32-1144,1146-2080;2112-2386 <KOR>
A;Cross-references: GB:X02761
R;Xornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
Nucleic Acids Res. 12, 5853-5868, 1984
A;Title: Human fibronectin: cell specific alternative mRNA splicing generates polypeptid A;Reference number: A93529; MUID:84272258; PMID:6462919
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A,Residues: 2291-2386 <KO3>
A,Cross-references: GB:K00799; NID:g182681; PIDN:AAA52460.1; PID:g182684
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A,Molecule type: protein
A,Residues: 293-301 GRI>
K.Calaycay, J.; Pande, H.; Lee, T.; Borsi, L.; Siri, A.; Shively, J.E.; Zardi, L.
J. Biol. Chem. 260, 12136-12141, 1985
A;Title: Primary structure of a DNA- and heparin-binding domain (domain III) in human pl:
A,Reference number: A23901, MUID:86008277; PMID:3900070
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A;Residues: 616-677, 0, 679-703, PT' <CAL>
A;Residues: 616-677, 0, 679-703, PT' < CAL>
A;Residues: 616-677, 0, 84091ahti, E.; Sundelin, J.; Lind, P.; Peterson, P.A.
J. Piol. Chem. 257, 9592-9597, 1982
J. Biol. Chem. 257, 9592-9597, 1982
A;Itle: The cell attachment domain of fibronectin. Determination of the primary structue A;Reference number: A92386; MUID:82265604; PMID:7050098
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;Residues: 1589-1630, T',1722-2058 <GAR3>
;Tressel, T.; McCarthy, J.B.; Calaycay, J.; Lee, T.D.; Legesse, K.; Shively, J.B.; Pand
iochem. J. 274, 731-738, 1991
;Title: Human plasma fibronectin. Demonstration of structural differences between the A';Reference number: S14357; MUID:91190085; PMID:2012601
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X,Residues: 2017-2080;2112-2356 <GAR4>
C;Comment: The extra domain and connecting strand 3 are subject to developmental and tis:
C;Comment: The cellular and plasma fibronectins are high molecular weight glycoproteins,
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A introns : 49/3; 1266/1; 1357/1; 1447/1; 1487/1; 1541/1; 1631/1; 1991/1; 2145/1

C; Superfamily: £10xonectin; £10xonectin type I repeat homology; £10xonectin type II repect; Superfamily: £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin; £10xonectin
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A;Molecule type: protein
A;Reaidues: 32-47,'C',49-51,'S',53-72,'A',74-290 <GAR1>
R;Garcia-Pardo, A.; Gold, L.I.
R;Garcia-Pardo, A.; Gold, L.I.
Arci. Biochem. Blophye. 304, 181-188, 1993
A;Title: Further characterization of the binding of fibronectin to gelatin reveals the A;Reference number: S34791; MUID:93312001; PMID:8323285
A;Accession: S34791
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A;Residues: 1441-1548 <PIE>
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A;Residues: 1441-1548 <PIE>
A;Note: residues 1524-1527 are responsible for the cell-binding activity
A;Note: residues 1524-1527 are responsible for the cell-binding activity
B;Garcia-Pardo, A.; Rostagno, A.; Frangione, B.
Biochem. J. 241, 923-928, 1987
A;Title: Primary structure of human plasma fibronectin. Characterization of a 38 kDa
A;Reference number: A32517; MUID:87241275; PMID:3593230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Molecule type: protein
A;Residues: 291-300,551-560 cGAR2>
R;Griffin, C.A.; Calaycay, J.; Shively, J.E.; Smith, R.L.
Thromb. Res. 43, 469-477, 1986
A;Title: Two plasma fibronectin fragments with different gelatin-binding properties.
A;Reference number: A60904; WUID:87019725; PMID:3532418
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A,Residues: 1614-1630, T'. 1722-2081,2113-2244 <TRE>
R;Garcia-Pardo, A.; Pearlstein, E.; Frangione, B.
J. Biol. Chem. 260, 10320-10325, 1985
A;Title: Primary structure of human plasma fibronectin.
A;Reference number: A23891; MUID:85261459; PMID:4019516
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Title: Perfect score:

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Run on:

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Sequence 52634, A Sequence 52, Appl Sequence 1, Appl Sequence 5, Appl Sequence 5, Appli
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Sequence 354, Application Wo. US20040166519A1

GENERAL INFORMATION:
GENERAL INFORMATION:
TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CLOOISON
CURRENT APPLICATION NUMBER: US/10/741,601

CURRENT FILING DATE: 2003-12-22
NUMBER OF SEQ ID NOS: 26415
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 354
LENGTH: 642
TYPE: PRT
CREATION NUMBER OF SEQ ID NOS: 26415
SEQ ID NO 354
LENGTH: 642
TYPE: PRT

CREATION NUMBER OF SEQ ID NOS: 26415
SEQ ID NO 354
LENGTH: 642
LYPE: PRT

CREATION NUMBER OF US NUMBER: US/10/741,601
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US-10-741-600-1072

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                                                                                                                                 3592.5
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                                                                                                                                                                                                                                                                                                                    -MODEL-Frame+ n2p.model -DEV=x1h
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-DB=Published Applications AA -QFMT=fasta_ -SUFFIX=DD. xapb_NMMATCH=0.1
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-TRANS=human40.cdi -LIST=45 -DCCALIGN=200 -THR SCORE=pct -THR MAX=100
-MAXIEN=2000000000 -USR=US09S81651 @CGN 1 1.161 @runat_07112005_092117_27656
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-EGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                  November 11, 2005, 07:54:49; Search time 171.5 Seconds (without alignments) 10476.095 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                    Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW PUB_pep:*
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     GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                        frame_plus_n2p model
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Maximum Match 100%
Listing first 45 summaries
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and is derived by analysis of
                                                                                                        - protein search, using
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Maximum DB seq length: 2000000000
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4096
                           Copyright
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Database

8, Appli 2, Appli

28, Appl 32, Appl 32, Appl 1, Appl 206, App 4, Appl 4, Appl 4, Appl 1069, Appl 1069, Appl 1069, Appl 107, Appl 107, Appl

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Score:	.: 2.04e-280 Length: 642 3664.00 Matches: 639 Similarity: 99-53% Conservative: 0	දි දි	1017 CAGTGG 321 GinTrp
DB:	Mismacches: Indels: Gaps:	8 8	•
US-09-581	1-651D-3 (1-2147) x US-10-741-601-354 (1-642)	8 8	341 Sercya
È	57 ATGCTTAGGGGTCCGGGGCTGCTGCTGCTGGCCGTCCAGTGCCTGGGGACGG 116	3 8	361 ValLeu
qa	1 MetLeuArgGlyProGlyProGlyLeuLeuLeuAlaValLeuCysLeuGlyThrAla 20	ò	
È	117 GTGCCCTCCACGGGAGCCTCGAAGAGCAAGAGGCAGCTCAGCAAATGGTTCAGCCCCAG 176	: 40 1	_
qq	21 ValproserthrdiyalaserLysserLysArgdinAladinGlnMetValdinProdin 40	ò	
δ,	TCCCCGGTGGCTGTCAGTCAAAGCAAGCCCGGTTGTTATGACAATGGAAAACACTATCAG	q	
a	SerProvalAlavalSerGinSerLysProGlyCysTyrAspAsnGlyLysHisTyrGin	λ	1317 TCTGAG
දි සි	237 ATAMATCAACAGTCGGACCTACCTAGGCAATGCGTTGGTTTGTTATGGA 296 	qq	421 SerGlu
ò	GGAAGCCGAGGTTTTAACTGCGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAG	ò	
: 점		QQ ,	
È	357 TACACTGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCCTAAAGACTCCATGATC 416	ð í	1437 GTCATG
a	101 TyrThrGlyAsnThrTyrArgValGlyAspThrTyrGluArgProLysAspSerMetlle 120	g a	
È	417 TGGGACTGTACCTGCATCGGGGCTGGGCGAGGAGAATAAGCTGTACCATCGCAAACGGC 476	Š	1497 19CACA
qq		3 8	
ò	477 TGCCATGAAGGGGTCAGTCCTACAAGATTGGTGACACCTGGAGGAGACCACATGAGACT 536	\$ E	
qq	141 CysHisGluGlyGlyGlnSerTyrLyslleGlyAspThrTrpArgArgProHisGluThr 160	8	
ò	537 GGTGGTTACATGTTAGAGTGTGTGTCTTTGGTAATGGAAAAGGAGAATGGACATGGAAG 596	g qo	
쉽	161 GlydlyfyrMetLeuGluCysValCysLeudlyAendlyLysGlyGlufrpThrCysLys 180	ò	G
ò	597 CCCATAGCTGAGAGTGTTTTGATCATGCTGCTGGGACTTCCTATGTGGTCGAGAAACG 656	3 8	541 AspPro
අු	181 ProlleAlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 200	ò	
à	657 TGGGAGAAGCCCTACCAAGGCTGGATGATGGTAGATTGTACTTGCCTGGGAGAAGGCAGC 716	원	
qq	201 İrpGluLysProTyrGlnGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySer 220	ò	
λō	GGACGCATCACTTGCACTTCTAGAAATAGATGCAACGATCAGGACACAAGGACATCCTAT	· qa	 581 GluTrp
QQ Q	221 GlyargileThrCysThrSerArgAsnArgCysAsnAspGlnAspThrArgThrSerTyr 240	ò	1857 ATCACT
ò	777 AGAATTGGAGACACCTGGAGCAAGAAGGATAATCGAGGAAACCTGCTCCCAGTGCATCTGC 836	ପ	
අු	241 ArglieGlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuLeuGlnCysIleCys 260	ò	1917 TCTCAC
ò	ACAGGCAACGGCCGAGGAGAGTGGAAGTGTGAGAGGCACACCTCTGTGCAGACCACATCG	a	 621 SerHi
යු	ThrGlyAsnGlyArgGlyGluTrpLysCysGluArgHisThrSerValGlnThrThrSer	ò	1977 GGATAC
ර සි	897 AGCGGATCTGGCCCTTCACCGATGTTCGTGCAGCTGTTTACCAACCGCAGCCTCACCCC 956	qu	 641 GlyTyr
l &	CARCITICITATION CONTRACTOR CAGA CAGA CAGA CAGA CAGA CAGA CAGA CAG	RESULT US-10-	RESULT 2 US-10-741-600-1066
. q		; Sequ ; Publ	Sequence 1066, App Publication No. US
		; GENE	RAL INFORMATI

CATTICCAAGTACATICICAGGIGAGACCTCIGAGIAICCCACCAGAAACCTI 1976 GGGCAGAGAGACACATGAAGTGGTGTGGGACCACACAGAACTATGATGCCGAC GTACCGCATTGGAGATCAGTGGGATAAGCAGCATGACATGGGTCACATGATGAGG CCAAGAGACAGCTGTAACCCCAGACTTACGGTGGCAACTCAAATGGAGAGCCATGT 1066, Application US/10741600 tion No. US20050026169A1 INFORMATION:

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57 ATGCTTAGGGGTCCGGGGCCCGGGCTGCTGCTGCCGTCCAGTGCCTGGGGACAGCG 116
                                                                                                                   89, Appl
6512, Ap
12, Appl
12, Appl
14, Appl
9, Appl
22, Appl
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19, Appl
10, Appl
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Sequence 1, Application US/09961403

Patent No. 6780594

GENERAL INFORMATION:
APPLICANT: HE-STUMPP, HOLGER
APPLICANT: HE-STUMPP, HOLGER
APPLICANT: KRAFTZSCHWAR, JOERN
APPLICANT: WITERHABER, ELKE
APPLICANT: WITERHABER, ELKE
APPLICANT: REGIOOF, PEDRO
APPLICANT: REGIOOF, PEDRO
APPLICANT: SCOTTI, SIMONE
ITILE REFERENCE: SCH-1789
CURRENT APPLICATION NUMBER: US/09/961,403
CURRENT PILING DATE: 2001-09-25
CURRENT PILING DATE: 2010-09-25
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1

SEQ ID NO 1

LENGTH: 2386
                       seduence sequence seq
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Sequence
Sequence
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US-09-136-218-22
US-09-521-220-19
US-09-391-104-20
US-09-48-016-6575
US-08-48-48-16
US-09-689-730-16
US-09-99-016-10629
US-09-949-016-10629
US-09-949-016-10629
US-09-949-216-10629
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Matches:
Conservative:
Mismatches:
Indels:
                                       US-08-704-711A-18
US-09-521-220-18
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US-08-142-449B-14
US-08-142-449B-14
US-09-194-468A-45
US-09-194-468A-45
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US-09-136-218-18
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US-09-228-901A-2
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87.78%
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ORGANISM: Homo sapiens
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Best Local Similarity:
Query Match:
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207
206.5
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  Score:
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Sequence 12, Appli
Sequence 2, Appli
Sequence 2, Appli
Patent No. 5455158
Sequence 1, Appli
Sequence 1, Appli
Sequence 16, Appli
Sequence 16, Appli
Sequence 16, Appli
                                                                                                                                                                   November 11, 2005, 07:12:33; Search time 35.5 Seconds (without alignments) 9029.383 Million cell updates/sec
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                                                                                                                                                                                                                                                                                                                           Sequence 19,
Sequence 30,
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1: /cgn2_6/prodacu/1/iaa/5A_COMB.pep:*
    /cgn2_6/prodacu/1/iaa/5B_COMB.pep:*
3: /cgn2_6/prodacu/1/iaa/6A_COMB.pep:*
4: /cgn2_6/prodacu/1/iaa/6B_COMB.pep:*
5: /cgn2_6/prodacu/1/iaa/PcTUS_COMB.pep:*
6: /cgn2_6/prodacu/1/iaa/PcTUS_COMB.pep:*
                       GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.

    protein search, using frame_plus_n2p model

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PCT-US93-12687-2

5455158-1

5455158-1

US-08-283-857-1

US-08-283-857-1

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US-08-982-597A-19

US-09-136-218-19

US-09-136-218-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of hits satisfying chosen parameters:
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Maximum Match 100%
Listing first 45 summaries
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
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110 9 8 7 6 5 4 3 2

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MetLeuArgGlyProGlyProGlyLeuLeuLeuLeuAlaValGlnCysLeuGlyThrAla 20
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                                    TCCCCGGTGGCTGTCAAAGCAAGCCCCGGTTGTTATGACAATGGAAAACACTATCAG
                                          SerProValAlaValSerGlnSerLy8ProGlyCysTyrAspAsnGlyLy8HisTyrGln
                                                          GGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAAGACTTGCTTTGACAAG
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AGTCAGCCCAACTCCCATCCCATCCAATGCACCACAGCCATCTCACATTTCCAAG GATGACATCACTTACAATGTGAACGACACATTCCACAAGCGTCATGAAGAGGGGCCACATG TGCCAGGATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGAGAAGTATGTG CCTTTACAGACCTATCCAAGCTCAAGTGCTCCTGTCGAAGTATTTATCACTGAGACTCCG GGAGATCAGTGGGATAAGCAGCATGACATGGGTCACATGATGAGGTGCACGTGTTGGG AATGGTCGTGGGGAATGGACATGCCTTGCCTACTCGCAGCTTCGAGATCAGTGCATTGTT CTGAACTGTACATGCTTCGGTCGGGGCAGGTGGAAGTGTGATCCCGTCGACCAA --GACAGCACAACTTCGAATTATGAGCAGGACCAGAAATACTCTTTC TGCACAGACCACACTTTTGGTTCAGACTCGAGGAGGAAATTCCAATGGTGCCTTGTGC CACTTCCCCTTCCTATACAACAACCACAATTACACTGATTGCACTTCTGAGGGCCAGAAGA GACAACATGAAGTGGTGTGGGACCACACAGAACTATGATGCCGACCAGAAGTTTGGGTTC PEPTIDE <u>۳</u> PROTEASE ADDRESSEE: Wolf, Greenfield & Sacks, STREET: 600 Atlantic Avenue Sequence 12, Application US/09016366A
Patent No. 5955431
GENERAL INFORMATION:
APPLICANT: Stevens, Richard L.
APPLICANT: Huang, Chifu
TITLE OF INVENTION: INHIBITORS
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS: TACATTCTCAGGTGGAGGCCT 1952

Title: Perfect score: Sequence:

nucleic

Run on:

Scoring table:

Minimum DB seq Maximum DB seq

Total number

Searched:

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Human pol
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Human cel
NM 00202
Human fib
Human fib
Protein #
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human bla
Protein #
Novel hum
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha.
Adm40433
Adm40432
Adm40432
Abc01289
Abr40124
Abr58335
Add885176
Add885176
Add26085
Add26085
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Add280374
Abr81866
Add18770
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Add38412
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ADR99200
AABS0377
ADQ39406
AAM38647
ADQ39412
AAM38646
AAM38649
AAM38649
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ADG89560
ADO55175
ADQ26085
ADQ29668
ADR67315
ADO55174
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AAO17353
ABR81866
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N-PSDB; AAX81299.
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 AAY28901;
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  Command line parameters:
-MODEL=frame+ n2p.model -DEV=Xlh
-MODEL=frame+ n2p.model -DEV=Xlh
-Q=/CgnZ_1/USFPTO spool h/USF09581651/runat_07112005_092112_27535/app_query.fasta_1.2311
-Q=/CgnZ_1/USFPTO spool h/USF09581651/runat_07112005_092112_27535/app_query.fasta_1.2311
-DBA_Geneeq -QFMT=fastan -SUFFIX=n2p.rag -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bite -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi -LISF=45
-DOCALIGN=200 -THR_SCORE=pct -THR_NAT=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=pco -NORM=ext -HEAPSIZE=560 -MINLEN=0 -MAXLEN=200000000
-USRE=USP09581651_GCNN 1 1 163 Grunat_07112005_092112_27555 -NCPU=6 -ICPU=3
-NO_MMAP -LLARGEQUERY -NGG_SCORES=0 -WALT -DSPBLOCK=100 -LONGLOG
-DGV_TIMEOUT=120 -WARW TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPBEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPOP=6 -DELOP=6 -DELEXT=7
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                                                                                                                                                             Description
             GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                             frame_plus_n2p model
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Listing first 45 summaries
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3781 3693.5 3693.5 3680.5 3680 3680 3680 3680 3684 3684

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Score

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    The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. The present sequence represents the human MSF1-alpha protein
                                                                                                                                                                                                                                                                                                                                                                                      ATCACTIGCACTICTAGAAATAGAIGCAACGAICAGGACCAAGGACAICCTATAGAATT
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

November 11, 2005, 07:57:14; Search time 202.745 Seconds (without alignments) 1666.981 Million cell updates/sec Run on:

US-09-581-651D-1 3781 1 NLVATCLPVRASLPHRLNML......ISKYILRWRPVSIPPRNLGY 660 Title: Perfect score: Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1612378 seqs, 512079187 residues Searched:

1612378 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Q7z391 homo sapien	Q6mzf4 homo sapien	Q68dt4 homo sapien	homo	homo	рошо	O6mzu5 homo sapien	homo	homo	P11276 mus musculu	P04937 rattus norv	P07589 bos taurus	Q6gqa5 xenopus lae			093406 brachydanio	Q6jan2 brachydanio	Q6mzm7 homo sapien			Q90xq2 ambystoma m		-	Q90yb3 paralichthy	O9pvm5 oryzias lat	Q6df16 xenopus tro	Q7t317 brachydanio	-	mus musc	3 xenopus	Q9w716 xenopus lae
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EMBL; BX649182; CAE45200.1; ---
EMBL; BX640802; CAE45885.1; ---
                                                         ITCTSRNRCNDQDTRTSYRIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSG
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last amortation update)
Hypothetical protein DKFZp686K119 (Hypothetical protein DKFZp686F219)
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Name-DKFZp686K139; Synonyms-DKFZp686F219;
Homo saplens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DHTVLVQTRGGNSNGALCHFPFLYNNHNYTDCTSEGRRDNMKWCGTTQNYDADQKFGFCP
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                                                                                                                                                                                                                            1 NIVATCLPVRASLPHRLNMLRGPGPGLLLLLAVQCLGTAVPSTGASKSKRQAQQMVQPQSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                        YMLECVCLGNGKGEWTCKPIAEKCFDHAAGTSYVVGETWEKPYQGWMVVDCTCLGEGSGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     QETAVTQTYGGNSNGEPCVLPFTYNDRT------DSTTSNYEQDQKYSFCT
                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     068DT4;
25-OCT-2004 (TYEMBLrel. 28, Last sequence update)
25-OCT-2004 (TYEMBLrel. 28, Last annotation update)
25-OCT-2004 (TYEMBLrel. 28, Last annotation update)
Hypothetical protein DKPZp686F10164.
Name-DKFZp686F10164;
Homo sapiens (Human).
Bukaryota; Metazca; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                         15;
                                                                                                                                                   2; Length 1103;
                                                                                                                                                                                       Indels
                                                                                                              1103 AA; 122113 MW; 82FEC4CAF634AD56 CRC64;
                                                                                                                                               97.5%; Score 3686.5; DB 2
97.3%; Pred. No. 8.2e-258;
iive 0; Mismatches 3;
RONECTIN 1; 9.
PROSITE; PS00022; EGF 1; UNKNOWN_1.
PROSITE; PS01023; FIBENDECTIN_1; 9.
PROSITE; PS50053; FIBENDECTIN_2; 2.
PROSITE; PS50853; FN3, 4.
Hypochecical procein.
NOW TER
SEQUENCE 1103 AA; 122113 MW; 82
                                                                                                                                                                     Best Local Similarity 97.3 Matches 647; Conservative
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5.1.6 Compugen Ltd. GenCore version (c) 1993 - 2005 Copyright

using sw model - protein search, OM protein

Run on:

November 11, 2005, 08:12:29; Search time 50.0392 Seconds (without alignments) 1269.066 Million cell updates/sec

US-09-581-651D-1 Title: Perfect score:

3781 1 NLVATCLPVRASLPHRLNML.....ISKYILRWRPVSIPPRNLGY 660 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 Total number of hits satisfying chosen parameters:

283416 segs, 96216763 residues

Searched:

seq length: 0 seq length: 200000000 80 Minimum I Maximum I

summaries Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 su Database :

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total.score distribution.

		d			SUMMARIES	
Result No.	Score	Query Match	Query Match Length	DB	ΙD	Description
-	3579.5	94.7	2386	-	FNHU	fibronectin precur
7	3354.5	88.7	2477	~	S14428	
m	32	88.0	2265	H	FNBO	fibronectin - bovi
4	2888	76.4	2481	7	A43908	fibronectin - Afri
<u>.</u>	196	25.4	190	~	151279	fibronectin - east
9	302.5	8.0	708	7	JC4364	ш
7	301	8.0	662	7	S70365	4
80	300	7.9	662	~	A42496	gelatinase A (EC 3
σ	300	7.9	662	7	S34780	4
10	300	7.9	707	Н	A53796	m
11	298	7.9	663	Н	S46492	gelatinase A (EC 3
12	297	7.9	099	Н	A28153	4
13	294.5	7.8	708	7	862907	m
14	294.5	7.8	712	Н	146031	gelatinase B (EC 3
15	294.5	7.8	730	Н	152580	œ
16	294.5	7.8	730	7	JC1456	gelatinase B (EC 3
17	285.5	7.6	707	-	A34458	œ
18	228.5	6.0	1020	7	A29355	Fibronectin - chic
19	208	5.5	1455	Н	A48925	mannose receptor p
20	199.5	5.3	1456	Н	A36563	mannose receptor p
21	199	5.3	5376	7	T42215	zonadhesin - mouse
22	190.5	5.0	1479	7	T42710	mannose receptor,
23	188.5	5.0	1584	7	T22674	hypothetical prote
24	188	5.0	1458	-	A49707	phospholipase A2 r
25	185.5	4.9	1326	7	B56395	secretory phosphol
26	185.5	4.9	1465	~	A56395	secretory phosphol
27	~	4.8	722	7	I48324	DELTA-like 1 - mou
28	181.5	4.8	473	~	A56175	adhesive plaque pr
29		4.7	1463	~	A53210	

notch protein - fr thrombospondin 1 p C-Delta-1 - chicke	rot	crumbs process - f hypothetical prote probable laminin a coaquiation factor	laminin alpha-1 ch insulin-11ke growt cation-independent cation-independent transmembrane prot
A24420 TSHUP1 I50719	A35844 A46019 S48719 A40043	A35672 T23433 T37316 KFHU12	S18253 A49617 I50726 I48922 S42612
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2703 1170 728	2524 2531 1487	2139 3672 3704 615	3712 2483 2470 2482 2437
4 4 4 6 0 0	444		44444
173.5	168.5 168.5 168	167 165.5 165.5 165	162.5 162.5 162 162
331	33.3	33 33 43 43 43 43 43 43 43 43 43 43 43 4	4 4 4 4 2 2 4 4 4 5 4 4 3

ALIGNMENTS

		validated]
		precursor [v
ULT 1	ח	ronectin

N; Alternate names: fibronectin splice form ED-A

C; Species: Homo sapiens (man)
C; Species: Homo sapiens (man)
Cjate: 27-Nov-1985 #sequence revision 31-Mar-1993 #text change 09-Jul-2004
C; Accession: A26460; A2624; S03917; A24476; A91008; A93529; A21011; A90495; A22
C; Accession: A26460; A2624; S03917; A24476; A91008; A93529; A21011; A90495; A22
R; Denc. Natl. Acad. Sci. U.S.A. 84, 1876-1880, 1987
A; Title: Cloning and analysis of the promoter region of the human fibronectin gene.
A; Reference number: A26460; MUID:87175578; PMID:3031656

A; Molecule type: DNA
MResidues: 1-49 - OEBAA; Kesidues: 1-49 - OEBAA; Cross-references: UNIPROT: P02751; UNIPROT: Q14327; GB: M15801; NID: g182686; PIDN: AAA5337
A; Cross-references: UNIPROT: P02751; UNIPROT: Q14327; GB: M15801; NID: g182686; PIDN: AAA5337
B; Oldberg, A.; Ruoslahti, E.
A; Title: Chem. 261, 2113-2116, 1986
A; Title: Evolution of the fibronectin gene.
A; Reference number: A26284; MUID: 86111901; PMID: 3003095

, Accession: A26284

A,Molecule type: DNA A;Residues: 1447-1540 <OLD> A;Cross-references: GB:M12549; NID:g182688 A;Note: the authors translated the codon TTC for residue 1494 as Glu R;Paolella, G.; Henchcliffe, C.; Sebastio, G.; Baralle, F.E. Nycleic Acids Res. 16, 3545-3557, 1988 A;Title: Sequence analysis and in vivo expression show that alternative splicing of ED-B A;Reference number: S00848; MUID:88233940; PMID:3375063

A; Molecule type: DNA A; Residues: 1594-1767, V, 1769-1783 <PAO> A; Residues: 1594-1767, V, 1769-1783 (PAO> A; Residues: Esterences: EMBL: X07718; NID: 931402 A; Note: the authors translated the codon AAC for residue 1631 as Asp R; Vibe-Pedersen, K.; Magnusson, S.; Baralle, F.E. ERSB Lett. 207, 287-291, 1986 A; Title: Donor and acceptor splice signals within an exon of the human fibronectin gene: A; Reference number: A24854; MUID: 87030929; PMID: 3770201

A,Molecule type: DNA A,Residues: 1982-2147 <VIB> A,Cross-references: 1982-2147 A,Gross-references: 18.04530; NID:931436 B,Gutman, A.; Yamada, K.M.; Kornblihtt, A. FEBS Lett. 207, 145-148, 1986 A,Title: Human fibronectin is synthesized as a pre-propolypeptide. A,Reference number: A24476; MUID:87030890; PMID:3770189

A; Status: not compared with conceptual translation

A;Molecule type: mRNA A;Residues: 1-14,'Q',16-38 <GUT> R;Koznblihtt, A.Y.: Umezawa, K.; Vibe-Pedersen, K.; Baralle, F.E. EMBO J. 4, 1755-1759, 1985

A,Title: Primary structure of human fibronectin: differential splicing may generate at 1

Mon Nov 14 10:15:16 2005

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fibronectin type III repeat homology <3FB> fibronectin type III repeat homology <3FC>
           C.A.; Calaycay, J.; Shively, J.E.; Smith, R.L. B. 43, 469-477, 1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               heparin binding
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Accession: A32517
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F;810-891/Domain:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A.Molecule type: mRNA
A.Roclecule type: mRNA

A;Reference number: A91008; MUID:85284965; PMID:2992939
A;Accession: A91008
A;Accession: A91008
A;Status: nucleic acid sequence not shown
A;Aclatus: nucleic acid sequence not shown
A;Aclatus: 32-1344,1346-2080;2112-2386 <KOR>
A;Cross-references: GB:X02761
R;Kornblihtt, A.R.; Vibbe-Pedersen, K.; Baralle, F.E.
Nucleic Acids Res. 12, 5853-5868, 1984
A;Title: Human fibronectin: cell specific alternative mRNA splicing generates polypeptid A;Accession: A93529; MUID:84272258; PMID:6462919
A;Accession: A93529
A;Accession: A93529
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J. Biol. Chem. 258, 10193-10196, 1983
A;Title: Molecular cloning and nucleotide sequence of a cDNA clone coding for the cell
A;Reference number: A21011; MUID:83290929; PMID:6688418
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A;Title: Further characterization of the binding of fibronectin to gelatin reveals
A;Reference number: $34791, MUID:93312001, PMID:8323285
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Molecule type: protein
Residues: 291-300;551-560 <GAR2>
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A; Molecule type: protein
A; Residues: 293-301 <GRI>
R; Calaycay, J.; Pande, H.; Lee, T.; Borsi, L.; Siri, A.; Shively, J.E.; Zardi, L.
B; Calaycay, J.; Pande, H.; Lee, T.; Borsi, L.; Siri, A.; Shively, J.E.; Zardi, L.
A; Daiol. Chem. 260, 12136-12141, 1985
A; Title: Primary structure of a DNA- and heparin-binding domain (domain III) in human pl
A; Reference number: A23901; MUID:86008277; PMID:3900070 J. Biol. Chem. 257, 9593-9597, 1982 A;Title: The cell attachment domain of fibronectin. Determination of the primary structu. A;Reference number: A92386; MUID:82265604; PMID:7050098 A;Molecule type: protein A;Residues: 1441-1548 cPHE>-A;Note: residues 1524-1527 are responsible for the cell-binding activity R;Garcia-Pardo, A.; Rostagno, A.; Erangione, B. Bochem. J. 241, 922-928, 1987 A;Title: Primary structure of human plasma fibronectin. Characterization of a 38 kDa dom. A;Reference number: A32517; MUID:87241275; PMID:3593230 ;Molecule type: protein ;Residues: 1589-1630, T',1722-2058 <GAR3> ;Tressel, T.; McCarthy, J.B.; Calaycay, J.; Lee, T.D.; Legesse, K.; Shively, J.E.; Pand: lochem. J. 274, 731-738, 1991 ;Title: Human plasma fibronectin. Demonstration of structural differences between the A ;Reference number: S14357; MUID:91190085; PMID:2012601 A; Cross-references: GDB:119135; OMIM:135600
A; Map position: 2434-2434
A; Cross-references: GDB:119135; OMIM:135600
A; Map position: 2434-2434
A; Introns: 49/3; 1266/1; 1357/1; 1447/1; 1487/1; 1541/1; 1631/1; 1721/1; 1991/1; 2145/1
C; Superfamily: fibronectin; fibronectin type I repeat homology; fibronectin type II reper
C; KGWwords: acute phase; alternative splicing; cell adhesion; collagen binding; duplicat
C; KGWwords: acute phase; alternative splicing; cell adhesion; collagen binding; duplicat
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A; Modecule type: protein
A; Modecule type: protein
A; Residues: 616-677, 'O', '679-703,'PT' < CAL>
R; Pierschbacher, M.D.; Ruoslahti, E.; Sundelin, J.; Lind, P.; Peterson, P.A.
R; Pierschbacher, M.D.; Ruoslahti, E.; Sundelin, J.; Lind, P.; Peterson, P.A. A; Modecule type: protein
A; Residues: 1614-1630, Tr, 1722-2081,2113-2244 <TRE>
B; Rearda-Pardo, A; Pearletein, B; Frangione, B.
B; Garcia-Pardo, A; Pearletein, B; Frangione, B.
A; Title: Primary structure of human plasma fibronectin.
A; Reference number: A23891; MUID:85261459; PMID:4019516

t i B

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November 11, 2005, 08:29:55; Search time 223.451 Seconds (without alignments) 1235.843 Million cell updates/sec
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1 NLVATCLPVRASLPHRIAML.....ISKYILRWRPVSIPPRNLGY 660
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6: /cgn2_6/ptodata/1/pubpaa/USO7_NEW PUB.pep:*

7: /cgn2_6/ptodata/1/pubpaa/USO8_NEW PUB.pep:*

8: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

9: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

10: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

11: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

12: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

13: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

14: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

15: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

16: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

16: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

17: /cgn2_6/ptodata/1/pubpaa/USO8_PUBCOMB.pep:*

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10: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

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14: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*

15: /cgn2_6/ptodata/1/pubpaa/USO8_NEW_PUB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		354, App	1066, Ap	59, App	072, Ap	4, Appli	04, App	, Appli	4, Appl	04, App	47, App	Sequence 436, App
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	Description	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Seguenc	Seguenc	Seguenc	Seguenc	Sequenc
		US-10-741-601-354	-1066	-359	-1072	-4	A-104	۳-	-94	-104	A-147	A-436
SS	,	-601	-600	-601	-600	-392	-194	-161	-564	-566	-335	-436
SUMMARIES		-741	-741	-741	-741	-236	-144	-447	-734	-491	-852	-287
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-10-287-436A-11 -11-040-130-28	US-10-618-281-32	-09-961-403-1	-10-788-792-20	US-10-868-577A-59	∹	US-10-485-758-9	₽	0-741-600-106	7	-10-741-	-10-741-	0 - 741 -	7	0 - 741 -	4	-10-741-	US-10-171-311-64	US-10-236-031B-70	ᅻ	US-10-182-936A-98	7	680-2	477-173-67	US-10-360-101-235	US-10-279-733-8	US-10-236-392-2	US-10-450-763-5263	44-19	US-10-491-566-52	-09-934-706	US-09-934-706-5
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ALIGNMENTS

360 438 420 498 480 618

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OPPPYCHCVTDSGVVYSVGMQMLKTQGNKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPC 378
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              241 RIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSGSGFFTDVRAAVYQPQPHP
                                                                  QPPPYGHCVTDSGVVYSVGMQMLKTQGNKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPC
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RIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSGSGPFTDVRAAVYQPQPHP
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                                                                                                                                                             SEGRRDNMKWCGTTQNYDADQKFGFCPMAAHEBICTTNEGVMYRIGDQWDKQHDMGHMMR
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; Sequence 359, Application US/10741601
; Publication No. US20040166519A1
; GENERAL INFORMATION:
GENERAL TOWN.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: STENOSIS, METHODS OF DETECTION AND USES THERE
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: GENETIC POLYMORPHISMS OF DETECTION AND USES THERE
; CURRENT APPLICATION UNBER: US/10/741,601
; CURRENT FILING DATE: 2003-12-22
; NUMBER OF SEQ ID NOS: 26415
; SEQ ID NO 359
; SEQ ID NO 359
; LENGTH. 557
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Pred. No. 2.3e-287;
0; Mismatches 3;
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Best Local Similarity 97.3%;
Matches 639; Conservative 0
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CORGANISM: Homo sapiens
US-10-741-601-359
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US-10-741-601-359
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| Publication No. US20050026169A1
| GENERAL INFORMATION
| TITLE OF INVENTION: MICHEL et al.
| TITLE OF INVENTION: MYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
| TITLE OF INVENTION: WYOCARDIAL INFARCTION, METHODS OF DETECTION AND USES THEREOF
| CURRENT APPLICATION NUMBER: US/10/741,600
| CURRENT APPLICATION NUMBER: US/10/741,600
| NUMBER OF SEQ ID NOS: 73997
| SEQ ID NOS: 73997
| SEQ ID NOS: 73997
| SEQ ID NO 1066
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                           QPPPYGHCVTDSGVVYSVGMQWLKTQGNKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPC 378
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1 NLVATCLPVRASLPHRLNML......ISKYILRWRPVSIPPRNLGY
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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
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GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
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US-08-551-356A-12

US-08-551-356A-12

US-08-23-12687-2

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US-08-153-799-16

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US-08-136-218-19

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US-09-136-218-19

US-09-136-1104-19

US-09-391-104-19

US-09-314-318-22

US-09-134-468A-45

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                        - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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seq length: 200000000
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Maximum DB
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                                                                                                                                     Run on:
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No.
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Appl Appl Appl Appl Appl Appl Appl Appl		1 78 60 138 120 198
19, Appl 20, Appl 6575, Ap 16, Appl 10629, Appl 20, Appl 21, Appl 21, Appl 2, Appl 18, Appl 18, Appl 11, Appl 11, Appl 11, Appl 11, Appl 11, Appl		Gaps IGKHYO IGKHYO IGKHYO IGHIII KDSMI IBWTCK IBWTCK
Sequence Seq	ENDOMETRIOSIS	Length 2386; Indels 15; PVAVSQSKPGCYDN PVAVSQSKPGCYDN TGATYRVGDTYERP
US-09-521-220-19 US-09-391-104-20 US-09-949-016-6575 US-08-48-489-16 US-09-949-016-10629 US-09-949-016-10629 US-09-136-218-20 US-08-982-597A-21 US-09-136-218-21 US-09-136-218-21 US-09-136-218-18 US-09-136-218-18 US-09-136-218-18 US-09-136-218-18 US-09-136-218-18 US-09-136-218-18 US-09-136-218-18 US-09-136-218-17 US-09-136-218-17 US-09-136-218-17	LIGNMENTS VITRO DIAGNOSIS OF 961,403	Score 3595.5; DB 4; Pred. No. 7.2e-301; Mismatches 2; I VBSTGASKSKROAQOWVOPQSP
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707 707 707 708 708 718 48 48 43 43 43 43 43 43 43 43 43 43 43 43 43	on , H HWA HWA HWA HWA BERT GER PE PE 178 NUW NUW NUW NUW NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	95 97 1111AV 1111AV 1111AV 1111AV 111A
<i></i>	Cat CON: TUME TON: TON: TERPITORIE TON: C	Similarity 97. 9; Conservative MLRGPGPGLLLLAVO
285.5 285.5 285.5 285.5 285.5 278 278 220 220 219.5 206 206 206 206	ነ ወር - ጀጨርቭያው ጠ ፣	atch cal S (23) (62) (62) (79 (79 (13) 139 (12) (12)
00000000000000000000000000000000000000	RESULT 1 US-09-961-403 Sequence 1, Patent No. GENERAL INF APPLICANT: APPLICAN	Query M Best Lo Matches My Db Db Oy Oy

199 181 259 241 319

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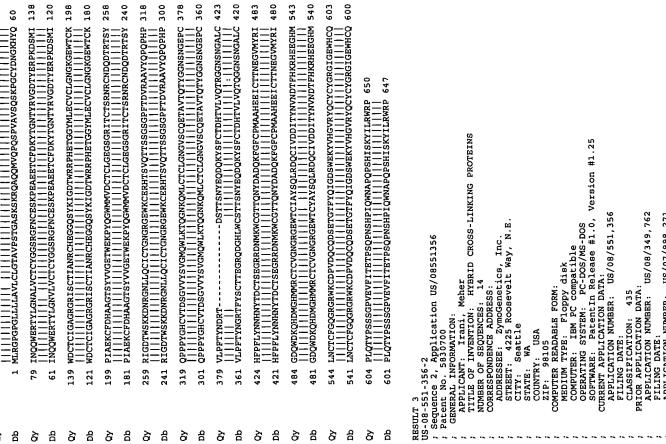
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RIGDIWSKKDNRGNLLQCICTGNGRGEWKCERHISVQTISSGSGPFTDVRAAVYQPQPHP 318

RIGDTWSKKDNRGNLLOCICTGNGRGEWKCERHTSVQTTSSGSGFFTDVRAAVYQPQPHP

QPPPYGHCVTDSGVVYSVGMQMLKTQCHKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPC

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MIRGPGPGLILLLAVQCLGTAVPSTGASKSKRQAQQMVQPQSPVAVSQSKPGCYDNGKHYQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: US/07/998,271 APPLICATION NUMBER: US/07/998,271
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ZIP: 98105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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STATE: WA
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                                                   421 HFPFLYNNHNYTDCTSEGRRDNMKWCGTTQNYDADQKFGFCPMAAHESICTTNEGVMYRI 480
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    301 OPPPYGHCVTDSGVVYSVGMQMLKTQGNKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPC 360
                                   VLPFTYNDRT------DSTTSNYEQDQKYSFCTDHTVLVQTRGGNSNGALC 423
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94.7%; Score 3579.5; DB 2; Length 2386; 96.8%; Pred. No. 1.7e-299; ive 1; Mismatches 5; Indels 15;
                                                                                                                                                                                                                                                                                               604 PLQTYPSSSGPVEVFITETPSQPNSHPIQWNAPQPSHISKYILRWRP 650
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SIKELY: BOSICON ALIGILIC AVENUE
CITY: BOSICON
STATE: MA
COUNTRY: U.S.A.
ZIP: 02210-2211
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,366A
FILING DATE: January 30, 1998
CLASSIFICATION 1530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/037,090
FILING DATE: 05-FEB-1997
ATTORNEY/AGENT INFORMATION:
NAME: Plumer, Blizabeth R.
REGISTRATION NUMBER: 36,637
REFERENCE/DOCKET NUMBER: 36,637
TELEPHONE: 617-720-3500
                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Stevens, Richard L.
APPLICANT: Huang, Chifu
TITLE OF INVENTION: MAST CELL PROTEASE PEPTIDE
TITLE OF INVENTION: INHIBITORS
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADDRESSEE: Wolf, Greenfield & Sacks, P.C. STREET: 600 Atlantic Avenue
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 12, Application US/09016366A Patent No. 5955431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2386 amino acids
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Matches 626; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MOLECULE TYPE: protein
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US-09-016-366A-12
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
             Copyright
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- protein search, using sw model OM protein November 11, 2005, 07:55:44; Search time 244.157 Seconds (without alignments) 1045.483 Million cell updates/sec Run on:

US-09-581-651D-1 Title: Perfect sc Sequence:

3781 1 NLVATCLPVRASLPHRLNML......ISKYILRWRPVSIPPRNLGY score:

99

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

2105692

2105692 segs, 386760381 residues

Searched:

Total number of hits satisfying chosen parameters:

seq length: 0 seq length: 200000000 Minimum DB R Maximum DB R Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A Geneseq 16Dec04:* Database

geneseqp2002s:* geneseqp2003as:* geneseqp2003bs:* geneseqp2004s:* geneseqp1980s:* geneseqp1990s:* geneseqp2000s:* geneseqp2001s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	Aay28901 Human mig	2 Human	Adr66120 Human pro		9	Ads17489 Amino aci	Adr97658 Human fib	Adq39403 Human myo	4 Human	Aam40435 Human pol	Aam40433 Human pol	Aam40432 Human pol		Abo01289 Human pro	Human	Abr58335 NM 00202	Adp65196 Human fib	Adg89560 Human fib	Ado55175 Protein #	Adq26085 Fibronect	Add29668 Human col		Ado55174 Protein #	σ	Aao17353 Human fib
	ΙD	AAY28901	ADR66462	ADR66120	AAY28914	ADR67316	ADS17489	ADR97658	ADQ39403	AAM40434	AAM40435	AAM40433	AAM40432	ADQ39409	ABO01289	ABR40124	ABR58335	ADP65196	ADG89560	ADO55175	ADQ26085	ADQ29668	ADR67315	ADO55174	ABG22279	AA017353
	Length DB		2182 8	_	720 2	642 8	642 8	642 8	642 8	2447 4	2447 4	2447 4	2447 4	657 8	2220 6	2266 6	_	2355 7	_	_	2355 8	2355 8		2386 8	2474 4	2386 5
de	Query Match Le	100.0	7.76	7.76	97.3	97.3	97.3	97.3	6.96	6.7	96.7	7.96	96.7	96.4	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.1
	Score	3781	3693.5	3693.5	3680.5	3680	3680	3680	3664	3658	3658	3658	3658	3646.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3599.5	3595.5
	Result No.	п	7	٣	4	S	9	7	80	σ,	10	11	12	13	14	15	16	17	18	19	20	21	22		24	25

Abr81866 Human fib Add18770 Human dis Ade63324 Human Pro Adr99200 Fibronect	Aab50377 Human fib Adq39406 Human myo Aam38647 Human pol Adq39412 Himan myo		Add39404 Human myo Aam38648 Human pol Add39408 Human myo Aaw99595 Human fib	0 4 4	Adk00410 Fibronect Aag68182 Fibronect
ABR81866 ADD18770 ADE63324 ADR99200	AAB50377 ADQ39406 AAM38647 ADQ39412	AAM38646 AAM38649 ADQ39415			ADK00410 AAG68182
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3595.5 3595.5 3595.5	3593.5 3592.5 3592.5	3592.5 3592.5 3592.5	3592.5 3592.5 3592.5 3586.5		3546 3448.5
26 28 29 29	327	3 3 3 4 5 6	33 34 40 40	41 42 43	4 4 5

ALIGNMENTS

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AAY28901 standard; protein; 660 AA
           (first entry)
           21-SEP-1999
       AAY28901;
RESULT 1
  AAY2890
```

Human migration stimulating factor (MSF) 1-alpha protein.

Migration stimulatory factor; MSF; cell migration; modulation; human; wound healing; scarring; MSF1-alpha.

Ното варіеля

WO9931233-A1

24-JUN-1999.

98WO-GB003766. 15-DEC-1998; 97GB-00026539. 16-DEC-1997;

(UYDU-) UNIV DUNDEE

Schor SL, Schor AM;

WPI; 1999-430039/36.

N-PSDB; AAX81299

Proteins with cell migration stimulatory activity used in treating wound and preventing scarring.

Claim 1; Page 53; 86pp; English.

The invention provides a human migration stimulatory factor (MSF) protein. Host cells containing a replicable vector comprising the MSF encoding nucleic acid can be used for the recombinant production of the protein. The polypeptide can be used for modulating cell migration, healing a wound and for preventing scarring. The present sequence represents the human MSFI-alpha protein

Sequence 660 AA;

Gaps ô Length 660; Indela Query Match 100.0%; Score 3781; DB 2; Best Local Similarity 100.0%; Pred. No. 7.1e-242; Matches 660; Conservative 0; Mismatches 0;

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(PILA/) PILARSKY C.

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        9
                                                 61 VAVSQSKPGCYDNGKHYQINQQWERTYLGNALVCTCYGGSRGFNCESKPEAEFTCFDKYT
                                                                                                      GNTYRVGDTYERPKDSMIWDCTCIGAGRGISCTIANRCHEGGQSYKIGDTWRRPHETGG
                                                                                                                                                                                                                                                              SGPFTDVRAAVYQPQPHPQPPPYGHCVTDSGVVYSVGMQMLKTQGNKQMLCTCLGNGVSC
                                                                                                                                                                                                                                                                                                                ALCHFPFLYNNHNYTDCTSEGRRDNMKWCGTTQNYDADQKFGFCPMAAHEEICTTNEGVM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GHMLNCTCFGQGRGRWKCDPVDQCQDSETGTFYQIGDSWEKYVHGVRYQCYCYGRGIGEW
NIVATCLPVRASLPHRIMMIRGPGPGILLLAVQCLGTAVPSTGASKSKRQAQQWVQPQSP
                                   VAVSOSKPGCYDNGKHYQINQQWERTYLGNALVCTCYGGSRGFNCESKPEAEETCFDKYT
                                                                                       GNTYRVGDTYERPKDSMIWDCTCIGAGRGRISCTIANRCHEGGQSYKIGDTWRRPHETGG
                                                                                                                                          YMLECVCLGNGKGEWTCKPIAEKCFDHAAGTSYVVGETWEKPYQGWMMVDCTCLGEGSGR
                                                                                                                                                      YMLECVCLGNGKGEWTCKPIAEKCFDHAAGTSYVVGETWEKPYQGWMVDCTCLGEGSGR
                                                                                                                                                                                            ITCTSRNRCNDQDTRTSYRIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSG
                                                                                                                                                                                                             ITCTSRNRCNDQDTRTSYRIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSG
                                                                                                                                                                                                                                             SGPPTDVRAAVYQPQPHPQPPPYGHCVTDSGVVYSVGMQWLKTQGNKQMLCTCLGNGVSC
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14-MAY-2003; 2003DE-01022134.
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ROSENTHAL A.
HERMANN K.
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This invention describes novel cytostatic polymucleotide and polypeptide sequences which can be used in a method for diagnosing prostatic cancer. Cor the risk of developing prostatic cancer. Diagnosis is based on determining over transcription or over expression of the sequences in prostatic tissue. Screening for inhibitors of the sequences or detection or imbstances involves a binding assay, any compounds that bind are selected, optionally after deconvolution of mixtures. Detection of a predetermined minimum level of the reporter indicates the presence of tumour cells. Inhibitors can be chosen from antisense oligomoleotides, short-interfering RNA or ribozymes; an organic molecule of molecular overght below 5000, preferably 300, that binds to the polypeptide, an aptamer against the polypeptide; a (monoclonal) antibody (Ab) against the colypeptide, preferably humanised or human; an anti-idiotype, non-human (monoclonal) antibody directed against Ab or any of the above derivatised with a reporter group, cell toxin, immunostimulatory molecules and/or cancer by differential expression analysis, using DNA microarrays. Concer by differential expression analysis, using DNA microarrays. Concert cancer patients of prostatic cancer samples showed that CD24 was upregulated in many of them. Sections of tissue, isolated from prostatic cancer patients, or subjects at risk, were incubated concertained with hamalum (blue). Malignant calls stained serond antibody; streptavidin-conjugated horseradish camples were counterstained with hemalum (blue). Malignant calls stained seronds manibodismic staining was very strong, and ophymolectide and cytoplasmic staining was very strong, and polymenticlectide and polypeptide sequences used in the metabresent the invarience.
                                        Specht T;
                                                                                                                                                                                    New nucleic acids, and encoded proteins, from prostatic cancer tissue, useful for diagnosis, treatment and in screening for specific binding
                                        Rosenthal A, Hermann K, Pilarsky C, Spech
G, Bruemmendorf T, Kinnemann H, Roepcke S;
                                                                                                                                                                                                                                                                                        Claim 2; Page 1298; 1607pp; German.
                                        Hinzmann B, Dahl E,
Schmitt A, Beckmann (
                                                                                           Staub E;
                                                                                                                                            WPI; 2004-653386/63.
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                                                                                           Xinzhong L,
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11 NIVATCLEVRASLEHRINMERGPGFGLLLAVQCLGTAVPSTGASKSKRQAQQWVQPQSP 1 NLVATCLPVRASLPHRLNMLRGPGPGLLLLLAVQCLGTAVPSTGASKSKRQAQQMVQPQSP Gape 15; DB 8; Length 2182; Indels Score 3693.5; DB 8; Pred. No. 1.7e-235; 0; Mismatches 2; 97.78; 97.48; Best Local Similarity 97.4 Matches 648; Conservative Query Match g ઠ

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SGPFTDVRAAVYQPQPHPQPPPYGHCVTDSGVVXSVGMQWLKTQGNKQMLCTCLGNGVSC 360

AU140834 UI-M-HO0-950735 MA AU140889

170004247

AU140973 AU140526

-00H-W-IN BX417945

170005319 952271 MA

DKFZp686C AU140789

AU140991

AU140450 AU140735

AU140910 AU140814

protein

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Run on:

Sequence:

Searched:

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CR749281 7885 bp mRNA linear HTC 19-AUG-2004
Homo sapiens mRNA; cDNA DKFZp686F10164 (from clone DKFZp686F10164).
CR749281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (17-AUG-2004) MIPS, Ingolstaedter Landstr.1, D-85764
Submitted (17-AUG-2004) MIPS, Ingolstaedter Landstr.1, D-85764
Neuherberg, GERMANY
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKF2); Email s. Wiemann@dkfz-heidelberg.de;
sequenced by BMFZ (Blomedical Research Center at the
Heinrich-Heine-University, Duesseldorf/Germany) within the cDNA
sequencing consortium of the German Genome Project. This clone
(DKFZp686F10164) is available at the RZPD Deutsches
Please conteact RZPD for ordering:
Please conteact RZPD for ordering:
http://www.rzpd.de/cgi-bin/products/cl.cgi?CloneID=DKFZp666F10164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalla, Eutheria, Primates, Catarrhini, Hominidae, Homo. 1 (bases 1 to 7885)
Koehrer,K., Beyer,A., Mewes,H.W., Weil,B., Amid,C., Osanger,A., Fobo,G., Han,M. and Wiemann,S.
The German cDNA Consortium
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Purther information about the clone and the sequencing project is available at http://mips.gsf.de/projects/cdna/.
Location/Qualifiers
                           AU141008
CK616056
CK616056
CK616056
CK6180671
EX386270
CK6318051
EX41641
EX416089
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KEYWORDS
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TITLE
JOURNAL
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AUTHORS
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Command line parameters:
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-MODEL=frame+ p2n.model -DEV=x1h
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-UNITS=bits -START=1 -END=-1 -MATRIX=100 -TRR MIN=0 -ALIGN=15. MODE=LOCAL
-OTFRMT=pto -NORM=ext -HEAPSIZE=500 -MINLEN 0 -MAXLEN=200000000
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-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CR749281 Homo sapi
CR749316 Homo sapi
CR749317 Homo sapi
BC078656 Homo sapi
AK090135 Mus muscu
AK090135 Mus muscu
BX391752 BX398837
AK054456 Mus muscu
                                                                                                November 11, 2005, 08:46:42; Search time 13726.3 Seconds (without alignments) 1830.243 Million cell updates/sec
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                                                                                                                                                                                             1 NLVATCLPVRASLPHRLNML.....ISKYILRWRPVSIPPRNLGY 660
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                                                                                                                                                                                                                                                                                                                                                    68479088
            GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                     nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                      34239544 segs, 19032134700 residues
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Maximum Match 100%
Listing first 45 summaries
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CR749316
CR749317
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Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
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Maximum DB seq length: 2000000000
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gb_htc:
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Result 8

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LTRGATYNI Í VEALKDQRHKVRĒEVVTVGNSVNBGINQPTDDSCFDPYTVSHYAVGD
BERNBESGEFEKLLCQCLGFGSGHFRODSSRWCHDNOVNYKIGSKWDROGNGOMSCT
CLGNGKGEFKCDPHBATCYDDGSGHTRODSSRWCHDSTALA ICSCTCFGGRGWRCDNCRR
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                         primary cell culture"
). Vector pSport1_Sfi; host
/db_xref="teaxon:9606"
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/clone="bKEZp68F0101"
/clone=lib="686 (synonym: hlcc3). Vector pSpo DH10B; sites SfilA + SfilB"
/votage="adult"
/note="fibronectin 1, differentially spliced"
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                                                                                                     /gene="DKFZp686F10164"
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Matches:
Conservative:
Mismatches:
Indels:
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Best Local Similarity:
Query Match:
DB:
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ArgGlyProGlyProGlyLeuLeuLeuLeuAlaValGlnCysLeuGlyThrAlaValPro 40

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                                                                 ArgGlyPheAsnCysGluSerLysProGluAlaGluGluThrCysPheAspLysThr
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Total number of hits satisfying chosen parameters: 9794790 segs, 4134909567 residues Searched:

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Scoring table:

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries Minimum DB seq length: 0 Maximum DB seq length: 200000000

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(CGD Published_Applications_NA:* Database

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	equence 428	e 70, Ap	equence 238	equence 49,	equence 49,	equence 75,	equence 244	equence 8,	equence 27,	equence 53,	equence 81,	62	equence 21,	equence 72,	241	equence 77,	equence 245	equence 78,	equence 246	equence 74,	equence 240	equence 81,	equence 249	equence 71,	242	equence 79,	equence 247	equence 69,	equence 237	equence 82,	equence 25(equence 73,	equence 235		equence 243	equence 2,	equence 6,	equence 121	equence 135	eguence 5,	equence 8,	equence 7,	, B	equence 222	equence 51, App	
	ID	-10-956-157-428	10-741-601-70	-10-741-600-2	-10-210-120-	-10-909-035-4	-10-741-601-7	-10-741-600-2	-10-447-161-8	-10-734-564-27	-10-852-335A-	-10-287-436A-8	-10-868-577A-6	-10-868-549-2	-10-741-601-72	10-741-600	-10-741-601-77	-10-741-600	-10-741-601-78	-10-741-600-2	-10-741-601-7	-10-741-600-2	-10-741-601-81	-10-741-600	-10-741-601-71	-10-741-600	10-741-601-79	-10-741-600-2	10-741-601-69	-10-741-600-2	-10-741-601-82	-10-741-600-2	-10-741-601-73	-10-741-600-2	10-741-601-76	-10-741-600-2	-10-084-817-	-10-098-841-6	10-240-965-	-10-765-700-13	S-10-098-841-	S-10-098-841-	-10-098-84	36-392-	50-763	-10-144-194A-5	
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ALIGNMENTS

GENERAL INFORMATION:

Publication No. US20050118625A1

Publication No. US20050118625A1

Publication No. US20050118625A1

APPLICANT: Wyeth

APPLICANT: Wyeth

TITLE OF INVENTION: HUMAN OSTEDARTHRITIS AND HUMAN PROTEASES

FILE REFERENCE: 031896-043000 (AM 10.081)

CURRENT APPLICATION NUMBER: US/10/956,157

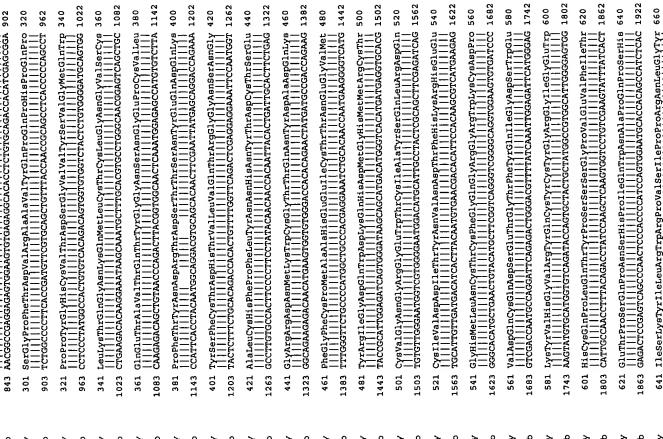
CURRENT FILING DATE: 2004-10-04

NUMBER OF SEQ ID NOS: 319805

SOFTWARE: Patentin version 3.2 US-10-956-157-4288

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes nucleic acids (1) associated with bladder cancer tissue. Also described: (1) peptides and proteins (11) containing an amino acid sequence encoded by (1): (2) a method for diagnosing bladder cancer (BC), or monitoring its progression, that uses (I). (II) or agents (Z) that inhibit, or bind to, (1) or (II), labelled with a reporter; and (3) a method for treating BC that uses (I), (II) or (Z). (I) have cytostatic activity. (I) and (II) can be used to detect (and monitor progression of) bladder cancer (BC), or the risk of developing it; to screen for specific binding agents (Z), and to treat BC. (Z) are also useful as diagnostic and therapeutic agents. The present sequence represents a human nucleotide sequence associated with bladder cancer, which is used in the exemplification of the present invention.
                               GluThrProSerGlnProAsnSerHisProIleGlnTrpAsnAlaProGlnProSerHis
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         GlnGluThrAlaValThrGlnThrTyrGlyGlyAsnSerAsnGlyGluProCysValLeu
                                                                                         TyrSerPheCysThrAspHisThrValLeuValGlnThrArgGlyGlyAsnSerAsnGly
                                                                                                           1414 TACTCTTTCTGCACAGACCACTGTTTTGGTTCAGACTCGAGGAGAAATTCCAATGGT
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The invention relates to a novel method for identifying an individual who comprises detected risk for developing myocardial infarction. The method comprises detecteding a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's contest card risk for myocardial infarction in the individual. The invention cut terret comprises: an isolated nucleic acid molecule comprising at least cut expecification or its complement and encoding any one of the invention the specification in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an isolated polypeptide of that specification and which is between about 16 and 1000 nucleotides in the specification and which is between about 16 and 1000 nucleotides in contrainty a kit for detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an variant polypeptide; and contrainty an agent useful in treating or preventing an SNP in a nucleic acid molecule; an enthod of detecting a variant polypeptide; and comprise of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or method is useful in identifying an individual who has an increased or method is useful in identifying an individual who has an increased or method or method is useful in identifying an individual who has an increased or method or many and proven and an infarretion and for many and for many and for many and for many and an infarretion and the movel detecting an infarretion and method for identifying an individual who has an increased or method or method for identifying an infarretion and for many and for many and for many and an increased or method for identifying an individual who has an increased or method for identifying an individual who has an increased or method for identifying an indiv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----ying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
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30-APR-2003; 2003US-0466412P.
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Sequence 2443 BP; 599 A; 628 C; 682 G; 532 T; 0 U; 2 Other;

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Compounds serum and tissue biomarkers would aid diagnosis. The invention may provide means of producing compounds with a cytostatic activity or allow the development of gene therapy. The methods of the invention useful for characterising prostate tissue in a subject, screening compounds, characterising inconclusive prostate biopsy tissue in a subject, detecting AMACR (alpha-methylacyl-coenzyme A racemase)

compounds cancer in a bodily fluid, characterising tissue in a subject, diagnosing cancer in a subject and inhibiting the growth of cells. The present sequence is a DNA sequence which is preferably utilised in the compounds.
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15-NOV-2001; 2001US-0334468P.
01-AUG-2002; 2002US-00210120.
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                                                                                                                                                                                                                                                                                                                                                                   Human SNP containing myocardial infarction-associated gene, SEQ ID 244
                                                                                                                                                 LysTyrValHisGlyValArgTyrGlnCysTyrCysTyrGlyArgGlyIleGlyGluTrp
                                                                             GlyHisMetLeuAsnCysThrCysPheGlyGlnGlyArgGlyArgTrpLysCysAspPro
                                                                                                                                                                                                  CATTGCCAACCTTTACAGACCTATCCAAGCTCAAGTGGTCCTGTCGAAGTATTTATCACT
                                                                                                                                                                                                                       GluThrProSerGlnProAsnSerHisProIleGlnTrpAsnAlaProGlnProSerHis
                                                                                                                                                                                                                                                                                                                                                                                   Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human; gene; ds.
                                          CysileValAspAspIleThrTyrAsnValAsnAspThrPheHisLysArgHisGluGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids where the presence of the SNP is correlated with an uncleic acids where the presence of the SNP is correlated with a nucleic acids where the presence of the SNP is correlated with a newtiton of turther comprises; an isolated nucleic acid molecule comprising at least a contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an antibody comprising an amino acid sequence given in the specification; an antibody that specification and which is between the specification in the comprising an amplified polynucleotide containing an SNP given in the specification and which is between about is and 1000 nucleotides in clength; a kit for detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing mycardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing mycardial infarction and for preparing a composition for treating or preventing mycardial infarction. This polynucleotide sequence represents a human mycardial infarction. This polynucleotide sequence represents a human mycardial infarction. This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the NIPO website.
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This invention describes novel cytostatic polynucleotide and polypeptide sequences which can be used in a method for diagnosing prostatic cancer
                                                                                                                                                                                                                                  New nucleic acids, and encoded proteins, from prostatic cancer tissue, useful for diagnosis, treatment and in screening for specific binding agents.
                                 TGTACATGCTTCGGTCAGGGTCGGGCAGGTGGAAGTGTGATCCCCTCGACCAATGCCAG
                                                                                                                                                                                                                                                                           GlnThrTyrProSerSerSerGlyProValGluValPheIleThrGluThrProSerGln
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                                                                          CysThrCysPheGlyGlnGlyArgGlyArgTrpLysCysAspProValAspGlnCysGln
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             IleThrTyrAsnValAsnAspThrPheHisLysArgHisGluGluGlyHisMetLeuAsn
                                                                                                                                            AspSerGluThrGlyThrPheTyrGlnIleGlyAspSerTrpGluLysTyrValHisGly
                                                                                                                                                                             GATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGAGAAGTATGTGCATGGT
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Beckmann G, Bruemmendorf T, Kinnemann H, Roepcke S;
                                                                                                                                                                                                                                                                                                                                                                                                                                 LeudrgTrpArgProValSerIleProProArgAsnLeuGlyTyr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human prostatic carcinoma derived DNA SEQ
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14-MAY-2003; 2003DE-01022134.
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ROSENTHAL A.
HERMANN K.
PILARSKY C.
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Xinzhong L,
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GAAGGGGGTCACTACAAGATTGGTGACACCTGGAGGAGACCACATGAGACTGGTGGT
                                 TyrMetLeuGluCysValCysLeuGlyAsnGlyLysGlyGluTrpThrCysLysProIle
                                                                TACATGTTAGAGTGTGTGTGTTGTAATGGAAAAGGAGAATGGACCTGCAAGCCCATA
                                                                                                                  GCTGAGAAGTGTTTTGATCATGCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGAG
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prostatic tissue. Screening for inhibitors of the sequences in prostatic tissue. Screening for inhibitors of the sequences in prostatic tissue. Screening for inhibitors of the sequences or detection brootseld by alternovives a binding assay, any compounds that bind are substances involves a binding assay, any compounds that bind are selected, optionally after deconvolution of mixtures. Detection of a predetermined minimum level of the reporter indicates the presence of theorem cells. Inhibitors can be chosen from antisense oligomucleotides, short-interfering RNA or ribozymes; an organic molecule of molecular estamer against the polypeptide, and monoclonal) antibody (Ab) against the polypeptide, preferably humanised or human; an anti-idotype, non-human (monoclonal) antibody directed against Ab or any of the above derivatised at the reporter group, cell toxin, immunostimulatory molecules and/or radioisotope. The polyputoleotides are identified in human prostatic cancer by differential expression analysis, using DNA microarrays, between normal and tumorous tissues, with (over)expression being detected by quantitative PCR. Analysis of prostatic cancer samples showed that CT24 was upregulated in many of them. Sections of tissue, isolated from prostatic cancer patients, or subjects at risk, were incubated concernatially with anti-human CD4 murine monoclonal antibodies; between the diaminobenzidine as colour former (brown). The samples were counterstained with hemalum (blue). Malignant cells stained strongly but non-malignant cells end; weakly. In 15 of 63 samples and denocarcinoma, membrane and cytoplasmic staining was very strong, and lymph node metastases were also stained. ADR65805-ADR66954 represent the invention. developing prostatic cancer. Diagnosis is based on invention

Sequence 7242 BP; 1932 A; 1884 C; 1785 G; 1641 T; 0 U; 0 Other;

GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 100 GlyAsnThrTyrArgValGlyAspThrTyrGluArgProLysAspSerMetIleTrpAsp 140 213 AACTIGGIGGCAACTIGCCTCCCGGIGCGGCGTCTCCCCCCACCGTCTCAACAIGCTT 272 573 GGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCCTAAAGACTCCATGATCTGGGAC 632 ValAlaValSerGlnSerLy8ProGlyCy8TyrAspAsnGlyLy8HisTyrGlnIleAsn 80 21 ArgGlyProGlyProGlyLeuLeuLeuLeuAlaValGlnCyBLeuGlyThrAlaValPro 40 SerThrGlyAlaSerLysSerLysArgGlnAlaGlnGlnMetValGlnProGlnSerPro 60 1 AsnleuValAlaThrCysLeuProValArgAlaSerLeuProHisArgLeuAsnMetLeu 513 CGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACACT Length:
Matches:
Conservative:
Mismatches: US-09-581-651D-1 (1-660) x ADR66637 (1-7242) 1.1e-239 3693.50 97.44% 97.69% Best Local Similarity: Percent Similarity: Alignment Scores: Pred. No.: 453 273 41 61 393 81 101 121 Query Match: DB: a 셤 à ò g δ Š q ò g ò 셤 ò

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hrglygly 180 CTGGTGGT 752	ysProlle 200 AGCCCATA 812	hrTrpGlu 220 CGTGGGAG 872	erGlyArg 240 GCGGACGC 932	Ytalgile 260 	yeThrGly 280 GCACAGGC 1052	erSerGly 300 CGAGCGGA 1112	roGlnPro 320 CCCAGCCT 1172	etGlnTrp 340 TGCAGTGG 1232	alSerCys 360 TCAGCTGC 1292	yavalleu 380 GrGrCrTA 1352	388 AGGACGGA 1412	heCysThr 405 TCTGCACA 1472	увнівРhe 425 GCCACTTC 1532	rgaspasn 445 GAGACAAC 1592	heCysPro 465 CTGCCCC 1652	leGlyAsp 485 TTGGAGAT 1712	lyAsnGly 505 GGAATGGT 1772	alagnagn 525
gargprohisgluʻ GAGACCACATGAGI	yGluTrpThrCysl AGAATGGACCTGC	rvalvalglygluf Gregreegagaa	8LeuGlyGluGly8 	pThrargThrser' 	uLeuGlnCysIleC 	rvalginthrthre TGTGCAGACCACAI	nProGlnProHisE 	1TyrservalGlyh CTACTCTGTGGGG/	8LeuGlyAsnGly\ CCTGGGCAACGGAC	raenglygluprod 	CACAGAAGGGCGAC	pglnLysTyrSeri 	raenglyalabeud 	rSerGluGlyArg/ TTCTGAGGGCAGA/	pGlnLysPheGlyE 	yvalmetTyrargl 	GCysThrCysValC	qAspGlnCvBIlev
GlyaspThrTrpar 	GlyasnGlyLysGl GGTAATGGAAAAGG	201 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 220	ValAspCysThrCy 	CysasnaspGlnas 	AsnargglyasnLe AATCGAGGAAACCT	31uArgHisThrse 	AlaAlaValTyrGl 3CAGCTGTTTACCA	AspSerGlyValVa 	MetLeuCysThrCy ATGCTTTGCACGTG	FyrGlyGlyAsnSe 	TTCTACTCCTGCAC	AsnTyrGluGlnAs 	ArgGlyGlyAbnSe 	TyrThraspCysTh 	asnTyraspalaas aactatGatGccGa	ThrThrasnGluGl 	31yHismetmetar 3GTCACATGATGAG	PyrSerGlnLeuAr
InSerTyrLysIle 	luCyBValCyBLeu \GTGTGTGTCTT	/aPheasphisala sttrgarcargcr	InglyTrpMetMet' \AGGCTGGATGATG	rSerargaenarg :TTCTAGAAATAGA	pSerlyslysasp GAGCAAGAAGGAT	yGluTrpLyBCyB(agaGTGGAAGTGT	heThraspValargi CACCGATGTTCGT	yHisCysValThr GCACTGTGTCACA	nGlyasnLysGlnl AGGAATAAGCAA	avalThrGlnThr' :TGTAACCCAGACT'	raenaspargthr caatggcaggacg	pSerThrThrSeri scagcacaactrcg	LeuValGlnThr TTTGGTTCAGACT	raanaanHiaaan' CaaCaaCCaCaatr	'8G1yThrThrG1n' TGGGACCACACAG	.BGluGluIleCyB' \CGAGGAAATCTGC	reGlnHisAspMet(GCAGCATGACATG	ThrCyslleAla
GluGlyGlyG] 	TyrMetLeug] TACATGTTAGA	AlaGluLysC) GCTGAGAAGTC	LysProTyrG] 	ileThrCysTh	GlyaspThrTz GGAGACACCTC	AsnGlyArgG] AACGGCCGAGC	SerglyProPh TCTGGCCCTT	ProProTyrG 	LeuLysThrG] CTGAAGACACA	GlnGluThrAl CAAGAGACAGO	ProPheThrTy CCATTCACCTA	CATCTTTGGTC	Asphisthrvs GACCACACTGI	ProPheLeury 	MetLysTrpCy ATGAAGTGGTG	MetalaalaHi ATGGCTGCCCA	GlnTrpAmpLy CAGTGGGATAA	ArqGlyGluTr
161	181	201	221	241	261	281	301	321	341	361	381	389	406	426	1593	466	486	206
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This invention describes novel cytostatic polynucleotide and polypeptide sequences which can be used in a method for diagnosing prostatic cancer or the risk of developing prostatic cancer. Diagnosis is based on determining over transcription or over expression of the sequences in prostatic tissue. Screening for inhibitors of the sequences or detection or substances involves a binding assay, any compounds that bind are selected, optionally after deconvolution of mixtures. Detection of a predetermined minimum level of the reporter indicates the presence of tumour cells. Inhibitors can be chosen from antisense oligonucleotides, short-interfering RNA or ribozymes; an organic molecule of molecular of spott below 5000, preferably 300, that binds to the polypeptide; an aptamer against the polypeptide; a (monoclonal) antibody directed against Ab or any of the above derivatised with a reporter group, cell toxin, immunostimulatory molecules and/or radioisocope. The polymucleotides are identified in human prostatic cancer by differential expression analysis, using DNA microarrays, cancer by differential expression analysis, using DNA microarrays. CC cancer by differential expression analysis, using DNA microarrays, copy quantitative PCR. Analysis of prostatic cancer samples showed that CD24 was upregulated in many of them. Sections of tissue, isolated from prostatic cancer patients, or subjects at risk, were incubated sequentially with anti-human CD4 murine monoclonal antibodies; cc sequentially but non-malignant cells only weakly. In 15 of 63 amples of errongly but non-malignant cells only weakly. In 15 of 63 amples of errongly but non-malignant cells only weakly. In 15 of 63 amples of copy. Invention copy plymuclectide and cytoplasmic staining was very strong, and invaluent on polymetide sequences used in the method of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            273 AGGGTCCGGGGCCCGGGCTGCTGCTGCTGGCCGTCCAGTGCCTGGGGACAGCGGTGCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41 SerThrGlyAlaSerLy8SerLy8ArgGlnAlaGlnMetValGlnProGlnSerPro
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 7242 BP; 1932 A; 1884 C; 1785 G; 1641 T; 0 U; 0 Other;
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                                                                                    IleThrTyzAsnValAsnAspThrPheHisLysArgHisGluGluGlyHisMetLeuAsn
                                                                                                                AspSerGluThrGlyThrPheTyrGlnIleGlyAspSerTrpGluLysTyrValHisGly
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, Bruemmendorf T, Kinnemann H, Roepcke S;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human; cytostatic; diagnosis; prostatic cancer; differential expression analysis; ds.
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14-MAY-2003; 2003DE-01022134.
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Beckmann G, I
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(DAHL/) DAHL B.
(ROSE/) ROSENTHAL A.
(HERM/) HERMANN K.
(PILA/) PILLARSKY C.
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anticonvulsant; nootropic; neuroprotective; immunosuppressive; dermatological; anti-inflammatory; cytostatic; antiarteriosclerotic; gene therapy; cell adhesion; extracellular matrix; CADECN; immune system disorder; AIDS; allergy; neurological disorder; stroke; Parkinson's disease; epilepsy; developmental disorder; Down's syndrome; cerebral palsy; connective tissue disorder; systemic lupus erythematosus; genetic disorder; Alport's syndrome; cell proliferative disorder; cancer; atherosclerosis; gene; se.
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                                      CGTGGGGAATGGACATGCATTGCCTACTCGCAGCTTCGAGATCAGTGCATTGTTGATGAC
                                                                                      IleThrTyrAsnValAsnAspThrPheHisLysArgHisGluGluGlyHisMetLeuAsn
                                                                                                                        ATCACTTACAATGTGAACGACACATTCCACAAGCGTCATGAAGAGGGGGCACATGCTGAAC
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                                                                                                                                                                                                                                             The present invention relates to novel human cell adhesion and extracellular matrix proteins, CADECM-1 to CADECM-22, and their coding sequences sequences (ACC00392-ACC00413 and ABR40104-ABR40125). The coding sequences and proteins are useful in diagnosing, treating and preventing disorders associated with aberrant expression of CADECM, such as immune system disorders (e.g. AIDS or allergies), neurological disorders (e.g. stroke, Parkinson's disease or epilepsy), developmental disorders (e.g. Down's syndrome or cerebral palsy), connective tissue disorders (e.g. systemic lupus erythematosus), genetic disorders (e.g. Alport's syndrome) or cell proliferative disorders (e.g. cancer or atherosclerosis)
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                                                                      Burford N, Warren BA, Duggan BM, Mason PM, Richardson TW, Yue
Korsythe IJ, Elliott VS, Griffin JA, Gorvad AE, Azhmai Y,
Kallick DA, Xu Y, Hochell CD, Baughn WR, Gietzen KJ, Lee S;
Walia NK, Tang YT, Nguyen DB, Becha SD, Lee SY, Ramkumar J;
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09-NOV-2001; 2001US-0344471P.
17-MAY-2002; 2002US-0381291P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatic; antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia and
                                                                       ATCACTTACAATGTGAACGACACATTCCACAAGCGTCATGAAGAGGGGCACATGCTGAAC
                                                                                                                                          AspSerGluThrGlyThrPheTyrGlnIleGlyAspSerTrpGluLysTyrValHisGly
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                    ArgGlyGluTrpThrCysIleAlaTyrSerGlnLeuArgAspGlnCysIleValAspAsp
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GENBANK; NM_002026.
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The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a sutoimmune disease or arthritides. The method comprises obtaining a patient sample containing maken, analysing gene expression using the mixed that results in a gene expression signature of the mixed, and using that came comprises in the patient, where gene expression of at least 60% of the genes correlates with that of the gene expression of a least 60% of the genes correlates with that of the gene expression of a least 60% of the genes correlates with that of the gene expression of a least 60% of the genes for targeting in the treatment of rheumatoid arthritis; identification of the than a mouse; appendix of theumatoid arthritis; diagnosis or array or gene chip, appendix of rheumatoid arthritis; diagnosis or array or gene chip, appendix of rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; and reducing the symptoms associated with collagentinduced arthritis and reducing the symptoms associated with collagentinduced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiamnosuppressive, antirheumatic, antiamnosuppressive, antirheumatic, antimunosuppressive, antirheumatic, antimunosuppressive, antirheumatic, antimunosuppressive, antirheumatic, antimunosuppressive, antirheumatic, antimunosuppressive, antirheumator, dermaclogical, and immunosuppressive, antirheumatic, antimunosuppressive, antirheumatic, antipunosuppressive, antirheumatic, antipunosuppressive, antirheumatic, antipunosuppressive, antirheumatic, antipunosuppressive, antirheumatic, antipunosuppressive, antirheumatic, antipunosuppressive
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Identifying a cell that differentiates into a metastatic cancer cell, useful for preventing metastatic cancer, comprises identifying a mutated fibronectin in the cell.
ValArgTyrGlnCysTyrCysTyrGlyArgGlyIleGlyGluTrpHisCysGlnProLeu
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/product= "Human fibronectin protein"
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CC differentiate into a metastatic cancer cell, the method involves CC identifying a mutated fibronectin in the cell. The method of the CC invention is useful for preventing metastatic cancer. The present DNA CC sequence represents a human fibronectin gene. XX Squence 8027 BP; 2130 A; 2111 C; 1973 G; 1813 T; 0 U; 0 Other;	Alignment Scores: 1.24e-239 Length: 8027 Score: 3693.50 Matches: 648 Percent Similarity: 97.44\$ Conservative: 0 Best Local Similarity: 97.44\$ Mismatches: 2 Query Match: 12 Gaps: 1	US-09-581-651D-1 (1-660) x ADG89565 (1-8027) Qy	aValPro GGTGCCC	334 TCCACGGAGCCTCGAAGAGCAAGAGCAGCTCAGCAAATGGTTCAGCCCCAGTCCCCG 3 61 ValalaValSerGlnSerLy8ProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsn 8	DD 394 GIGGCIGICAGACAAGCCGGGTIGITATGACAATGGAAAACACTATCAGATAAAT 453 Oy 81 GInGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 100 Db 454 CAAAGGGGAACGAACGAACGAACGAACGAAAGGAAGGAA	101 ArgGlyPheAsnCysGluSerLysProGluAlaGluGluThrCysPheAspLysTyTThr 	Qy 121 GlyasnThrTyrargValGlyaspThrTyrGluargProLysaspSerMetIleTrpAsp 140	Oy 141 CysThrCysIleGlyAlaGlyArgIleSerCysThrIleAlaAsnArgCysHis 160 	GluGlyGlyGlnSerTyrLysIleGlyAspThrTrpArgArgProHisGluThrGlyGly 1 	Qy 181 TyrMetLeuGluCy8ValCy8LeuGlyAsnGlyLy8GlyGluTrpThrCy8Ly8Prolle 200 Db 754 TACATGTTAGAGTGTGTGTTGGTAATGGAAAAGAAAGAAA	Qy 201 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThrTrpGlu 220 Db 814 GCTGAGAAGTGTTTTGATCATGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGAG	Qy 221 LysProTyrdInGlyTrpMetMetValAspCysThrCysLeuGlyGluGlySerGlyArg 240 Db 874 AAGCCCTACCAAGGCTGGATGATGTAGTAGTTCTACTTGCTGGGAAAGCAGAGACCC		261 GlyAspThrTrpSerLysLysAspAsnArgGlyAsnLeuLeuGlnCysIleCysThrGly 2

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274 AGGGGTCCGGGGCCCGGGCTGCTGCTGGCCGTCCAGTGCCTGGGGACAGCGGTGCCC
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                                           ValalavalSerGlnSerLysProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsn
                                                                                                    GTGGCTGTCAGTCAAAGCAAGCCCGGTTGTTATGACAATGGAAAACACTATCAGATAAAT
                                                                                                                                  GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGer
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     1 AsnLeuValAlaThrCysLeuProValArgAlaSerLeuProHisArgLeuAsnMetLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ArgG1yProG1yProG1yLeuLeuLeuLeuAaVa1G1nCysLeuG1yThrA1aVa1Pro
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Diagnosing colon cancer in individual, preferably human, by detectir presence of TIMP 1 in sample, where presence of TIMP 1 in sample is indicative of colon cancer in individual.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 8027 BP; 2130 A; 2111 C; 1973 G; 1813 T; 0 U; 0 Other;
                                                                                                                                                                                                       sequence #23
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Catino TJ;
Maimonis PJ,
1, Molino GA;
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Huntress M, Johnson KA, Lewis ME, P
er SLA, Thiagalingam A, Thibodeau SN,
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                                                                                                                                                                                                        Human colorectal cancer-associated protein
                                                                                                                                                                                                                                 human; colon cancer; TIMP1; Reg1-alpha;
colorectal cancer-associated marker; gene;
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(MAYO-) MAYO FOUND MEDICAL EDUCATION & RES.
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31-JUL-2003; 2003US-0491397P.
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                                                LeuArgTrpArgPro
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The present invention describes nucleic acids (I) associated with bladder cancer tissue. Also described: (1) peptides and proteins (II) containing an amino acid sequence encoded by (I); (2) a method for diagnosing bladder cancer (BC), or monitoring its progression, that uses (I), (II) or agents (Z) that inhibit, or bind to, (I) or (II), labelled with a reporter; and (3) a method for treating BC that uses (I), (II) or (Z). (I) and (II) have cytostatic activity. (I) and (II) can be used to detect (and monitor progression of) bladder cancer (BC), or the risk of developing it; to screen for specific binding agents (Z), and to treat BC. (Z) are also useful as diagnostic and therapeutic agents. The present sequence represents a human nucleocide sequence associated with bladder cancer, which is used in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 100
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                                                                           HERR A.
HINZMANN B.
DAHL B.
STAUB E.
PILARSKY C.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human; gene; ds.
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the individual's nucleic acids.

Claim 7; SEQ ID NO 241; 145pp; English.

The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleotide sequences given in the specification in the individual's can be invention attended risk for myocardial infarction in the individual. The invention curlet camprises: an isolated nucleic acid molecule comprising at least septiments and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in specification and which is between about 16 and 1000 nucleotides in length, a kit for decetting an SNP in a nucleic acid, comprising the nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and nucleic acid molecule; a method of detecting a variant polypeptide; and myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This sequence was not shown in the specification. The sequence has come from a electronic sequence listing downloaded from the WIPO website.

Sequence 6510 BP; 1684 A; 1770 C; 1639 G; 1407 T; 0 U; 10 Other;

•		20	378	40	438	09	498	80	558	100	618	120	678	140	738	160
6510 647 0 3 15		aSerLeuProHisArgLeuAsnMetLeu	CTTGCCTCCCGGTGCGGGCGTCTCCCCCCACCGTCTCAACATGCTT	ArgGlyProGlyProGlyLeuLeuLeuLeuAaValGlnCysLeuGlyThrAlaValPro	AGGGGTCCGGGGCCCCGGGCTGCTGCTGCTGCCGTCCWGTGCCTGGGGGACAGCGGTGCCC	SerThrGlyAlaSerLy8SerLy8ArgGlnAlaGlnGlnMetValGlnProGlnSerPro	TCCACGGGAGCCTCGAAGAGCAAGAGGCTCAGCTCAGCT	ValalaValSerGlnSerLysProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsn	GTGGCTGTCAGTCAAAGCAAGCCCGGTTGTTATGACAATGGAAAACACTATCAGATAAAT	CysThrCysTyrGlyGlySer	CTAGGCAATGCGTTGGTTTGTTGTTTATGGAGGAAGC	ArgGlyPheAsnCysGluSerLysProGluAlaGluGluThrCysPheAspLysTyrThr	CGAGGTTTTAACTGCGAGAGTAAACCTGGAGGTGAAGAGACTTGCTTTGACAAGTACACT	NygAgpSerMetIleTrpAgp	GGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCCTAAAGACTCCATGATCTGGGAC	СувThrCyslleGlyAlaGlyArgGlyArgIleSerCysThrIleAlaAsnArgCysHis
Length: Matches: Conservative: Mismatches: Indels:	(1-6510)	aThrCysLeuProValArgAlaSerLe	ccegreceacerere	LeuteuteuAlaValGlr	SCIGCIGCIGCCGICCWC	CLysArgGlnAlaGlnGlr	SAAGAGCAGGCTCAGCA	ProGlyCysTyrAspAsr	SCCCGGTTGTTATGACAA	rLeuGlyAsnAlaLeuVal	CTAGGCAATGCGTTGGT	CLysProGluAlaGluGlu	TAAACCTGAAGCTGAAGAC	yrArgValGlyAspThrTyrGluArgProLysAspSerMetIl	GACACTTATGAGCGTCC	ArgGlyArgIleSerCye
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TyrmetleuglucygvalcygleuglyabnglylybglygluTrpThrCy
AlaGluLy8Cy8PheAspHi8AlaAlaGlyThrSerTyrValValGlyGluTh
LyaProTyrGlnGlyTrpMetMetValAspCyaThrCysLeuGlyGluGlyS
GlyabpThrTrpSerLysLysAspabanargGlyabnLeuLeuGlnCysTleCy
AsnGlyArgGlyGluTrpLySCysGluArgHisThrSerValGluThrThrSerSe:
erdlyprophethraspvalargalaalavaltyrdinprodinprohis;
roprotyrdlyHisCysValThrAspserdlyValValTyrserValGlyWetGlnTrp
LeulysThrGlnGlyAsnLysGlnMetLeuCysTh.
GlnGluThrAlaValThrGlnThrTY
rophethrtyrashabpargthr
AbpSerThrThrSerashTyrGlu(
AspHisThrValLeuValGlnThrArgGlyGlyAsenSerAsnGlyAlaLeuCysHi }
roPheLeuTyrAsnAsnHisAsnTyrTh
etLysTrpCysGlyThrThrGl.
MetalaalaalisglugluilecysthrthrasngluglyvalMetty
GlnTrpAspLysGlnHisAspMetGlyHisMetMetArgCysThrCysValGlyAsnGl

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GluGlyGlyGlnSerTyrLys1leGlyAspThrTrpArgArgProHisGluThrGlyGly 180
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                                                                                                                                                                                                                                                                                                                                                                               Human SNP containing myocardial infarction-associated gene, SEQ ID 245.
                                                                                                                                                                                                                                                                                                                                                                                               Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human; gene; ds.
                                                    IleThrTyrAsnValAsnAspThrPheHisLysArgHisGluGluGlyHisMetLeuAsn
                                                                                      CysThrCysPheGlyGlnGlyArgGlyArgTrpLysCysAspproValAspGlnCysGln
                                                                                                    TGTACATGCTTCGGTCAGGGTCGGGGCCAGGTGGAAGTGTGATCCCGTCGACCAATGCCAG
                                                                                                                                                            ValargTyrGlnCysTyrCysTyrGlyArgGlyIleGlyGluTrpHisCysGlnProLeu
                                                                                                                                                                                                                CAGACCTATCCAAGCTCAAGTGGTCCTGTCGAAGTATTTATCACTGAGACTCCGAGTCAG
                                                                                                                          AspSerGluThrGlyThrPheTyrGlnIleGlyAspSerTrpGluLysTyrValHisGly
                                                                                                                                     GATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGAGAAGTATGTGCATGGT
                                                                                                                                                                           GTCAGATACCAGTGCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTTA
                                                                                                                                                                                               GlnThrTyrProSerSerSerGlyProValGluValPhelleThrGluThrProSerGln
                                                                                                                                                                                                                                    ProAsnSerHisProIleGlnTrpAsnAlaProGlnProSerHis1leSerLysTyrlle
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504555P.
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P-PSDB; ADQ39410.
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleif acids esquences given in the specification in the individual's altered risk for myocardial infarction in the individual. The invention curvature comprisates: an isolated nucleic acid molecule comprising at least the specification or its complement and encoding any one of the amino acid sequence given in the specification; an isolated polypeptide or comprising an amino acid sequence given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in the specification and which is between about 16 and 1000 nucleotides in comprising the polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in comprising the polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an variant polypeptide; and myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The myocardial infarction. The novel detection method has an increased or decreased risk for developing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This sequence was not shown in the specification. The sequence has come from associated gene containing one or more SNP's of the invention. Note: This associated gene containing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       120
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                                        ATCACTTACAATGTGAACGACACATTCCACAAGCGTCATGAAGAGGGGCACATGCTGAAC
                                                                                                                                                                                                                                                                                            Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human; gene; ds.
                                                                           CysThrCysPheGlyGlnGlyArgGlyArgTrpLysCysAspProValAspGlnCysGln
                                                                                          TGTACATGCTTCGGTCAGGGTCGGGGCAGGTGGAAGTGTGATCCCGTCGACCAATGCCAG
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                                                                                                                           AspSerGluThrGlyThrPheTyrGlnIleGlyAspSerTrpGluLysTyrValHisGly
                                                                                                                                                                             ValArgTyrGlnCysTyrCysTyrGlyArgGlyIleGlyGluTrpHisCysGlnProLeu
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                                                                                                                                                                                                                             GlnThrTyrProSerSerGlyProValGluValPheIleThrGluThrProSerGln
                                                                                                                                                                                                                                                                                 ProAsnSerHisProlleGlnTrpAsnAlaProGlnProSerHisIleSerLysTyrIle
                                                                                                                                                   GATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGAGAAGTATGTGCATGGT
                           IleThrTyrAsnValAsnAspThrPheHisLysArgHisGluGluGlyHisMetLeuAsn
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TyrMetLeuGluCysValCysLeuGlyAsnGlyLysGlyGluTrpThrCysLysProlle
                                                           TACATGTTAGAGTGTGTGTGTCTTGGTAATGGAAAAGGAGAATGGACCTGCAAGCCCATA
                                                                                                              GCTGAGAAGTGTTTTGATCATGCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGAG
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cc nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention current comprisates: an isolated nucleic acid molecule comprising at least so contiguous nucleotides where one of the nucleotides is an SNP given in the specification, an isolated polypeptide comprising an amino acid sequence given in the specification, an antibody that specifically binds to the polypeptide or its antigen-binding comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in cleageth; a kit for detecting an SNP in a nucleic acid molecule, a method of detecting an variant polypeptide; and comprising the polynucleotide, and an enzyme; a method of detecting an SNP in a nucleic acid molecule; and effect and an enzyme; a method of detecting an variant polypeptide; and composition and entity in the section method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction. This composition for treating or preventing myocardial infarction. The sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.

Sequence 7848 BP; 2069 A; 2046 C; 1939 G; 1778 T; 0 U; 16 Other;

SQ Sequenc Alignment Sc Pred. No.: Score: Percent Simi Best Local S Query Match:	Sequence ment Sco: No.: int Simila Local Sit	7848 BP; 2069 res: 3.07 3687 arity: 97.2 milarity: 97.2	A; 2046 C; e-239 (50 9%	L939 G; 1778 Length: Matches: Conservative: Mismatches: Indels:	T; 0 U; 16 Other 7848 647 0 0 15 15 15 15	; -	
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ò	н	AsnLeuValAlaThrCy	rCysLeuPro	ValArgAlaSerber	SLeuProValArgAlaSerLeuProHisArgLeuAsnMetLeu	MetLeu 20	
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ò	41	-	rLysSerLys	ArgGlnAlaGlnGlr	SerThrGlyAlaSerLysSerLysArgGlnAlaGlnGlnMetValGlnProGlnSerPro	SerPro 60	
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à	61		nSerLysPro	31yCysTyrAspAsr	ValalaValSerGlnSerLysProGlyCysTyrAspAsnGlyLysHisTyrGlnIleAsn	illeAsn 80	
qq	499	-	AAGCAAGCCC	GGTTGTTATGACAA	GTGGCTGTCACTCAAAGCAAGCCCCGGTTGTTATGACAATGGAAAACACTATCAGATAAAT	ATAAAT 558	8
ò	81	-	gThrTyrLeu	GlyAsnAlaLeuVa]	GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer	GlySer 100	0
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ò	101		sGluSerLys	ProGluAlaGluGlu	ArgGlyPheAsnCysGluSerLysProGluAlaGluGluThrCysPheAspLysTy	TyrThr 120	0
qq	619	-	CGAGAGTAAA	CCTGAAGCTGAAGAC	CGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTGAAGAGACTTGCTTTGACAAGTACACT	STACACT 678	6 0
ò	121	-	gValGlyAsp	ThrTyrGluArgPro	GlyAsnThrTyrArgValGlyAspThrTyrGluArgProLysAspSerMetIleTrpAsp	TrpAsp 140	0
ą	619	-	AGTGGGTGAC	ACTTATGAGCGTCC	GGGAACACTTACCGAGTGGGGTGACTTATGAGCGTCCTAAAGACTCCATGATCTGGGAC	73	œ
ò	141	-	YAlaGlyArg	GlyArgileSerCy	CysThrCys1leGlyAlaGlyArgGlyArg1leSerCysThrIleAlaAsnArgCysHis	CysHis 160	0
qq	739	-	GGCTGGGCGA	GGGAGAATAAGCTG	TGTACCTGCATYGGGGCTGGCGAGGAGAATAAGCTGTACCATCGCAAACCGCTGCCAT	TGCCAT 798	80
ò	161	-	rTyrLysile	GlyAspThrTrpArg	GluGlyGlyGlyGlnSerTyrLysIleGlyAspThrTrpArgArgProHisGluThrGlyGly	GlyGly 180	0
qa	799	-	CTACAAGATT	GGTGACACCTGGAGG	GAAGGGGGTCACTACAAGATTGGTGACACCTGGAGGAGCACCACATGAGACTGGTGGT	rggrggr 85	80
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Sequence 11808, A
Sequence 12833, A
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APPLICANT: Loriely, Debora W.
APPLICANT: Tingley, Debora W.
APPLICANT: Tingley, Debora W.
APPLICANT: Edwards, Carla M.
TITLE OF INVENTION: GENES EXPRESSED IN ALZHEIMER'S DISEASE FILE REFERENCE: PA-0024 US
CURRENT APPLICATION UNDER: US/09/566,921
CURRENT FILING DATE: 2000-05-05
NUMBER OF SEQ ID NOS: 138
SOFTWARE: PERL Program
SEQ ID NO 135
LENGTH: 8044
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OTHER INFORMATION: Incyte ID No. 6682888 427813.14
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US 09-949-016-2066

US 09-949-016-641

US 08-259-569-23

US 08-826-885-23

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US 09-255-569-30

US 09-949-016-30391

US 09-949-016-30391

US 09-949-016-30381

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87.9%; Score 1887.4;
Best Local Similarity 97.4%; Pred. No. 0;
Matches 1946; Conservative 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 135, Application US/09566921; Patent No. 6682888; GENERAL INFORMATION:
                                                                 TYPE: DNA
ORGANISM: Homo sapiens
         US-09-566-921-135
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AB191261 Homo sapi
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AL632771 Homo sapi
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7 15-DEC-1998 JP 2000539133
8 16-DEC-1997 BB 9726539.1
8 SETH LAWRENCE SCHOR, ANA MARIA SCHOR
C CLAIS/09, A61K38/00, A61P17/02, C07K14/78, C07K16/18, C12N5/10, PC
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Bukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.
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Schor, S.L. and Schor, A.M.
Schor, S.L. and Schor, A.M.
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-DBCALIGN=200 -THR_SCRE=pct -THR_MAN_S=100 -THRANS=human40.cdi_LIST=45
-UNITS=bits -START=1 -END=-1 -MATRIX=100 -TRANS=human40.cdi_LIST=45
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-UNITS=bits -START=1 -END=-1 -MATRIX=100 -MAX_ENS=20000000
-USER=US09581651_@CGN_1 1 9936 @runat_07112005_092223_28778 -NCPU=6 -ICPU=3
-UNITS=BITS -NCRUSS=1 -NGS_SCRESS=0 -MATRIX=BITS -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0 -NCRUSS=0
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	321 P 963 C 341 L 1023 C	361 G 1083 C	1143 CCATTCACCTACAACGACAGACAGCACAACTTCGAATTATGAGCAGAAAAACTOCAAAAAATTATGAGCAGAAAAAAAAAA	421 AlaLeuCysHisPheProPheLeuTyrAsnAsnHisAsnTyrThrAspCysThrSerGlu 4	441 G 1323 G 461 P	1383 TTTGGGTTCTGCCCCATGGCTGCCCACGAGGAATCTGCACAACCAATGAAGGCGTCATG 481 TYTATGGTTCTGCCCATGGCTGCCCACGAGGAATCTGCACAACCAATGAAGGCGTCATG	1443 TACCGCATTGGAGATCAGTGGGATAAGCAGCATGACATGGACATGGATCATGAGGTGGATGATGGAGGTGGATGATGGAGTGAGGTGGATGAT		1563 TG 541 Gl	561	581 LystytValhisGlyValArgTyrClnCysTyrClysTyrGlyArgGlyIleGlyGluTrp 	601 HisCysGinProLeuGinThrTyrProSerSerSerGiyProValGiuValPhelleThr 	y 621 GluThrProSerGlnProAsnSerHisProIleGlnTrpAsnAlaProGlnProSerHis 640
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FT Location/Qualifiers (human)'. FEATURES 1. 2147 BOUNCE / Corganism="Homo sapiens" /mol_type="genonic DNA" /db_xref="taxon:9606"	Alignment Scores: 1.1e-263 Length: 2147 Score: 3781.00 Matches: 660 Percent Similarity: 100.00% Conservative: 0 Best Local Similarity: 100.00% Mismatches: 0 Query Match: 6 Gaps: 0	US-09-581-651D-1 (1-660) x BD137021 (1-2147) Qy	Oy 21 ArgGlyProGlyLeuLeuLeuLeuAlaValGlnCysLeuGlyThrAlaValPro 40	Db 123 TCCACGGGAGCCTCGAAGAGCAGGCTCAGCAAATGGTTCAGCCCCCAGTCCCCG 182	81 GlnGlnTrpGluArgThrTyrLeuGlyAsnAlaLeuValCysThrCysTyrGlyGlySer 	Oy 101 ArgGlyPheAsnCysGluSerLysBroGluAlaGluThrCysPheAspLysTyrThr 120 	Oy 121 GlyasuthriyrargvalGlyaspThriyrGluargProLysaspSerMetileTrpAsp 140	Oy 141 CysThrCysIleGlyAlaGlyArgGlyArgIleSerCysThrIleAlaAsnArgCysHis 160 D	483 GAAGGGGTCAGTCCTACAAGATTGGTGACACCTGGAGGAGACCACATGAGACTGGTGGTGTATTATTATTGTTGGTGATTGGTGATTGGTGAGAGAGAGACACATGAGACTGGTGGTTGTTATTATTATTATTATTATTATTATTATTAT	43 IACATGTTAGAGTGTTGTTGTTTTGTTATGGAAAAGGAAAAGGAAATGGAATGGAACTGCAAG 01 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr 02 AlaGluLysCysPheAspHisAlaAlaGlyThrSerTyrValValGlyGluThr	221 LysProTyrGlnGlyTrpWetMetValAspCysThrCysLeuGlyGluGlySerGlyArg	Qy 241 11eThrCysThrSerArgAsnArgCysAsnAspGlnAspThrArgThrSerTyrArgIle 260 Db 723 ATCACTTGCACTTCTAGAAATAGATGGAACGAACGACACAAGGACACCACAAGGACACCTATAGAATT 782	1 GlyaspThrTrpSerLysLysaspasnargGlyasnLeuLeuGlnCysIleCys